TRANSFORMERS & INDUCTORS

YOUR ENERGY DEMAND

OUR INNOVATIVE SOLUTIONS

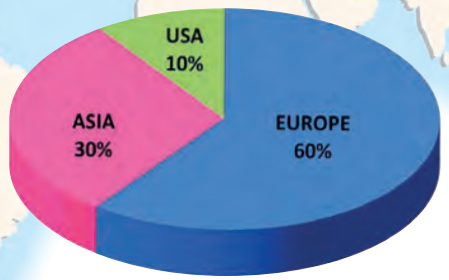
myrra.com

contact@myrra.com

discoverIE

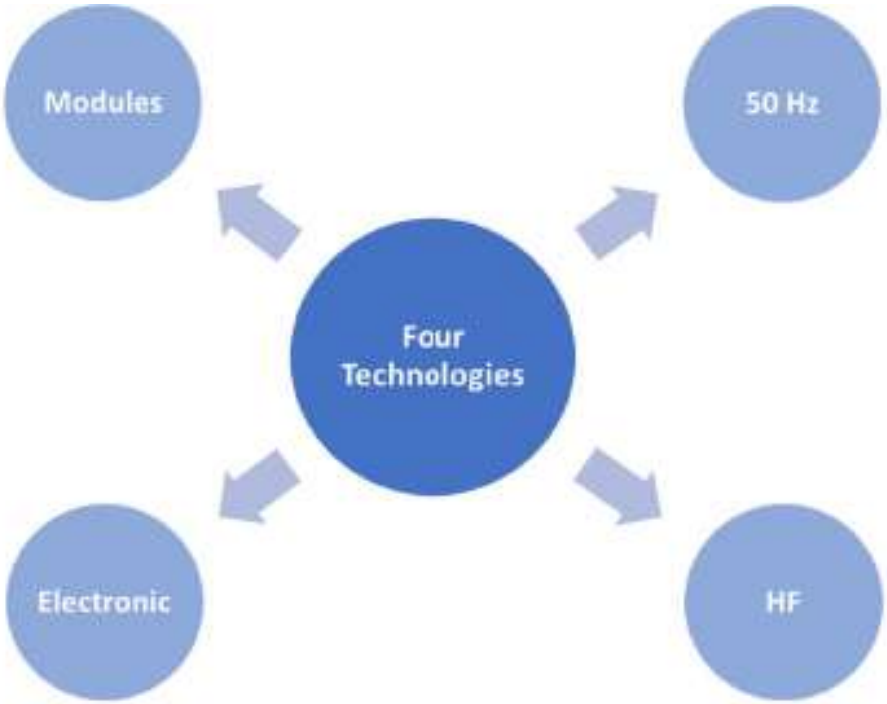
COMPANY PROFILE

Myrra is a major supplier in high quality for electronics components. Myrra has established a worldwide reputation. Myrra design and manufacture high-quality transformers and inductors for industrial use. We supply a blue-chip customer base in a variety of industries, including energy conversion, industrial applications, renewable energy and healthcare. We supply customers all over the world.



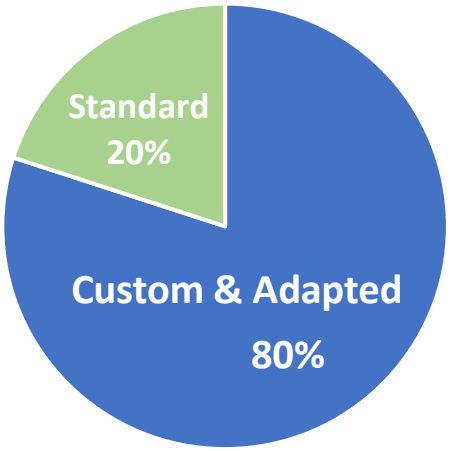
A wide range of products : We offer application specific transformers, inductors, chokes and coils,in three technologies: high frequency, 50Hz technology and electronic, enabling us to serve a number of major markets.

MAGNETICS & ELECTRONICS PRODUCTS



Applications

PRODUCTION SPREAD



Each of our clients have different needs & project, that is why most of our products are customized & adapted solutions to the client needs (80%).

Whether it is standard or custom product, each solution needs to be approved by our technical department & raise to our quality standard.

MARKET SEGMENTS

Myrra clients come from various markets & at different position in the product lifecycle (supplier, distributor, end-product …).

Our presence keeps growing over the years and help us to adapt our product to many applications.

Here's a few examples of our client market :

Industrial

Energy Renewable

Transport

PRODUCT APPLICATION

Each of our product has a wide range of potential applications.

Therefore, it is difficult to state a specific application for our product but here are some examples of application :

- Motor drives
- Connectivity
- Sensors
- Solar PV Inverters/UPS
- X-Ray Scanners
- And many more !

PRODUCT CERTIFICATIONS

PRODUCT LINES

PCB Magnetic Components

50-60Hz transformers (44 & 45 series)

* *Full range of standard references*
* *Isolating safety application*
* *UL, VDE, EN61558 certification*
* *Automated - 100% tested production*

Passive PFC chokes (43 series)

* *Large range of open & potted standard references*

Transformers & inductors* for SMPS *(74 series)

* *Large application range: flyback transformers, CM chokes etc.*
* *International standards compliant*
* *Standard products and customized design*

THT* & *SMD* Chokes *(75-79 series)

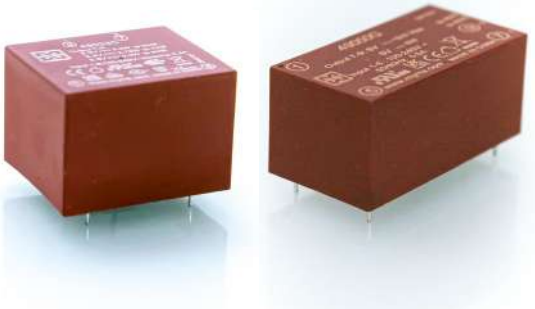
POWER RANGE Transformers and chokes for specific applications

DC, 50-60 Hz and switching applications

* *Customized design on specification*
  - *Chokes up to 1000A*
  - *50-60 Hz transformers up to 20 kVA*
  - *HF transformers up to 200 kW*
* *Insulation systems: B, F, H classes*
* *UL, IEC, CSA Compliant*

Encapsulated POWER SUPPLY

* *Pioneering alternative to linear transformers in AC/DC application*
* *EI30 to EI48 size - Input range: 85V-265VAC*
* *Regulated output: 3.3VDC-24VDC/ 2.5W-5W-7W-10W-20W-40W-60W*
* *Full compliance with Safety, EMC and Immunity standards*



EV Charging

* *Wallbox*
* *AC/DC Power Converters*

PRODUCT INDEX

TECHNICAL INFORMATION

RATED PRIMARY VOLTAGE (V)
This is the supply voltage assigned to the transformer by the manufacturer.

RATED SECONDARY VOLTAGE (V)
This is the secondary output voltage assigned to the transformer when supplied with the rated primary voltage, frequency range, rated secondary current, all assigned by the manufacturer for the specified operating conditions of the transformer.

RATED POWER (VA)
The specified power levels in this catalogue are the secondary power levels, in other words, those available when the transformer is loaded. It is the product of the RMS rated secondary voltage by the RMS rated current. If the transformer has more than one output winding, the rated power denotes the maximum sum of the products of RMS rated secondary voltage by the RMS rated secondary current, respectively. This rated power is defined for rated ambient temperature conditions.
example : P = 3,2 VA ta 70/B
The transformer can deliver 3.2VA at maximum ambient (70°C), the load consisting of a resistor load defined by R(load) = $U(sec)^2/P$ (assigned U sec & P values), heating does not exceed the relevant limit for Class B components used in this construction.

NOTE : When the transformer is intended to supply DC voltage and current in conjunction with rectifiers and smoothing capacitors, the VA power required from the transformer is far higher than the U(DC) and I(DC) product. To help you to determine the true transformer power, our Technical Department is at your disposal.

AMBIENT TEMPERATURE (Ta)
The maximum temperature at which the transformer may be operated continuously under nominal conditions of use. It is the air temperature measured close to the transformer after thermal stabilization when operating at rated conditions.

HEATING
The increase of the winding temperature when operating at rated conditions and maximum ambient temperature. The heating must be determined by the resistance method.

TEMPERATURE CLASS
The international classification of temperature classes is as follows :

A	105°C	H	180 °C
E	120°C	200	200 °C
B	130°C	220	220 °C
F	155°C	250	250 °C

It defines the maximum temperature the transformer components must withstand in continuous operation, in compliance with the N° 85 IEC publication classification. There insulating materials are therefore certificated for the thermal index corresponding to the declared class in accordance with N° 216 IEC standard.

PARTICULAR POINTS OF EN 61558-2-6 STANDARD FOR SAFETY TRANSFORMERS
On-load secondary voltage tolerance.

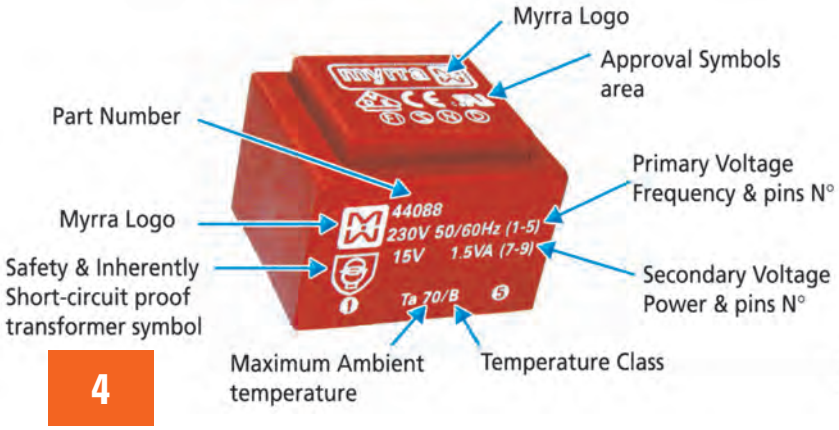
This should not differ from the rated value by more than :
10% for transformers with build-in resistance to short-circuits (a supplement of 5% is granted on the 2 nd secondary for tranformers with 2 secondaries).
5% for other transformers whatever the secondaries number.

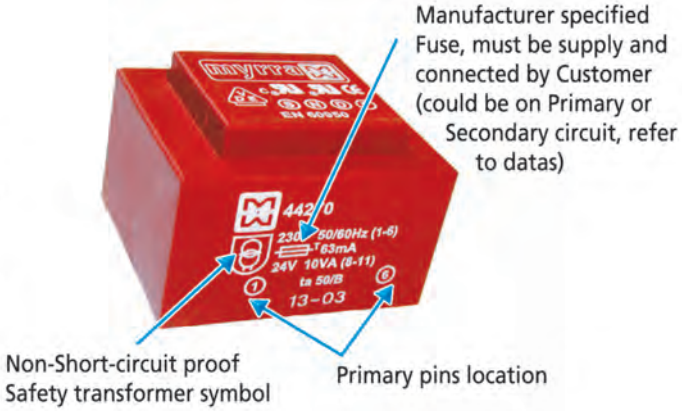
Off-load secondary voltage.

The values given in this catalogue are maximum theoretical values.
NOTE : For safety transformers, this should never exceed 50 V rms. In the case of a transformer with several secondaries, the sum of the secondary voltages should be less tan 50 V rms.

ADAPTED TRANSFORMERS FROM THE STANDARDS SERIES
Any transformer whose requires Power and Ambient corresponding to those of our 44000 & 45000 range, and whose secondary voltage can fit in our minimum to maximum secondary range will be covered by EN61558-2-6,EN60950, or UL506 approvals, depending on the effective choice .

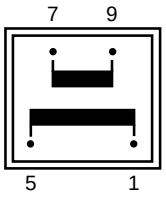
SPECIAL TRANFORMERS
MYRRA can use the 44000, 45000 or 46000 standard ranges to examine any transformer for compliance with your specifications and with international standards.
On request, we can add thermal protection, thermal fuse, thermal switch-CTP.
In certain cases, the addition of thermal protection enables the ambient temperature to be increased, while still complying with EN 61558.

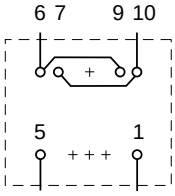


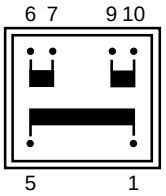


EN 61558-2-6 EN 60950 UL 5085

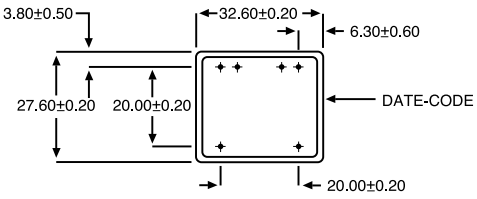
- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 VO
- Degree of protection IP 00
- 40 grams weight
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Inherently short-circuits proof
- Insulation voltage 4 KV
- 100 % tested production
- Certification : CCA procedure on request

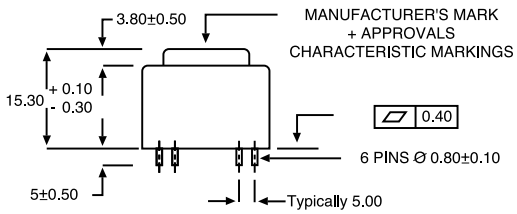






Recommended layout for transformers with 1 secondary winding
(Allows the use of a transformer with 2 secondary windings)





** RECOMMENDED DRILL-HOLE DIAMETER FOR 1,3 mm PINS

QUALITY IN SERIES

PRIMARY VOLTAGE 117 V

Protection	Reference	Secondary voltage V	Secondary current m A	No-load voltage V	Ambient Temperature °C	Rating VA
	44025	6	100	9,94	T 70 B	0,6
	44026	9	66	14,95	T 70 B	0,6
	44027	12	50	19,9	T 70 B	0,6
	44028	15	40	24,9	T 70 B	0,6
	44029	18	33	29,9	T 70 B	0,6
	44030	24	25	39,8	T 70 B	0,6
	44031	2 x 6	2 x 50	2 x 9,94	T 70 B	0,6
	44032	2 x 9	2 x 33	2 x 14,95	T 70 B	0,6
	44033	2 x 12	2 x 25	2 x 19,9	T 70 B	0,6
	44034	2 x 15	2 x 20	2 x 24,9	T 70 B	0,6
	44035	2 x 18	2 x 17	2 x 29,9	T 70 B	0,6
	44036	2 x 24	2 x 12	2 x 39,8	T 70 B	0,6

PRIMARY VOLTAGE 230 V

Protection	Reference	Secondary voltage V	Secondary current m A	No-load voltage V	Ambient Temperature °C	Rating VA
	44013	6	100	9,94	T 70 B	0,6
	44014	9	66	14,95	T 70 B	0,6
	44015	12	50	19,9	T 70 B	0,6
	44016	15	40	24,9	T 70 B	0,6
	44017	18	33	29,9	T 70 B	0,6
	44018	24	25	39,8	T 70 B	0,6
	44019	2 x 6	2 x 50	2 x 9,94	T 70 B	0,6
	44020	2 x 9	2 x 33	2 x 14,95	T 70 B	0,6
	44021	2 x 12	2 x 25	2 x 19,9	T 70 B	0,6
	44022*	2 x 15	2 x 20	2 x 24,9	T 70 B	0,6
	44023*	2 x 18	2 x 17	2 x 29,9	T 70 B	0,6
	44024*	2 x 24	2 x 12	2 x 39,8	T 70 B	0,6

*To be noted : * marked transformers are non approved.
Those transformers meet all requirement of EN 61558-2-4.

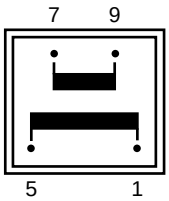
PRIMARY VOLTAGE 117 V

Protection	Reference	Secondary voltage V	Secondary current m A	No-load voltage V	Ambient Temperature °C	Rating VA
	44061	6	167	8,6	T 70 B	1
	44062	9	111	12,9	T 70 B	1
	44063	12	83	17,2	T 70 B	1
	44064	15	67	21,6	T 70 B	1
	44065	18	56	25,9	T 70 B	1
	44066	24	42	37,9	T 70 B	1
	44067	2 X 6	2 x 83	2 x 8,6	T 70 B	1
	44068	2 x 9	2 x 56	2 x 12,9	T 70 B	1
	44069	2 x 12	2 x 42	2 x 19	T 70 B	1
	44070	2 x 15	2 x 33	2 x 23,6	T 70 B	1
	44071	2 x 18	2 x 28	2 x 24,9	T 70 B	1
	44072	2 x 24	2 x 21	2 x 37,9	T 70 B	1
	44338	6	250	10,1	ta 70/B	1,5
	44339	9	167	15,3	ta 70/B	1,5
	44340	12	125	20,2	ta 70/B	1,5
	44341	15	100	25,3	ta 70/B	1,5
	44342	18	83	31,2	ta 70/B	1,5
	44343	24	63	43,3	ta 70/B	1,5
	44344	2 x 6	125	2 x 10,1	ta 70/B	1,5
	44345	2 x 9	83	2 x 15,3	ta 70/B	1,5
	44346	2 x 12	63	2 x 20,2	ta 70/B	1,5
	44347	2 x 15	50	2 x 25,0	ta 70/B	1,5
	44348*	2 x 18	42	2 x 31	ta 70/B	1,5
	44349*	2 x 24	31	2 x 43	ta 70/B	1,5
	44840	6	300	10,1	ta 70/B	1,8
	44841	9	200	15,2	ta 70/B	1,8
	44842	12	150	20,3	ta 70/B	1,8
	44843	15	120	27,3	ta 70/B	1,8
	44844	18	100	30,4	ta 70/B	1,8
	44845	24	75	40,6	ta 70/B	1,8
	44846	2 x 6	2 x 150	2 x 10,1	ta 70/B	1,8
	44847	2 x 9	2 x 100	2 x 15,2	ta 70/B	1,8
	44848	2 x 12	2 x 75	2 x 20,3	ta 70/B	1,8
	44849	2 x 15	2 x 60	2 x 27,3	ta 70/B	1,8

EN 61558-2-6

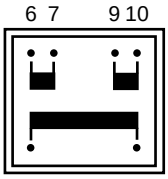
- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 VO
- Degree of protection IP 00
- 70 grams weight
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Inherently short-circuits proof
- 30 V and 36 V models are VDE EN 61558-2-6 certified (production on request)

1 Secondary winding



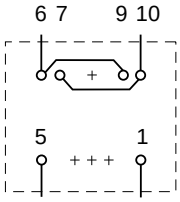
Primary winding

2 Secondary windings



Primary winding

Recommended layout for transformers with 1 secondary winding



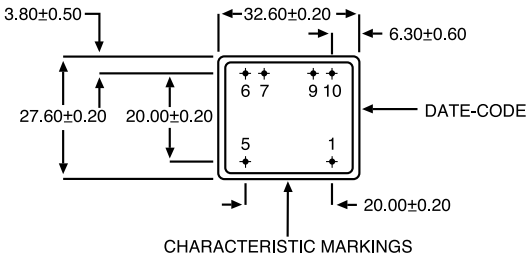
(Allows the use of a transformer with 2 secondary windings)

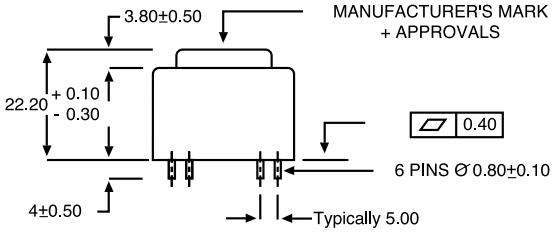
*design on request at myrra.com

EN 60950 UL 5085

- Insulation voltage 4 KV
- 100 % tested production
- Certification : CCA procedure on request

*To be noted 2 x 15 V and 2 x 24 V models are non-approved.
Those transformers meet all requirement of EN 61558-2-4





** RECOMMENDED DRILL-HOLE DIAMETER FOR 1,3 mm PINS

PRIMARY VOLTAGE 230 V

Protection	Reference	Secondary voltage V	Secondary current m A	No-load voltage V	Ambient Temperature °C	Rating VA
	44049•	6	167	8,6	T 70 B	1
	44050•	9	111	12,9	T 70 B	1
	44051•	12	83	17,2	T 70 B	1
	44052•	15	67	21,6	T 70 B	1
	44053•	18	56	25,9	T 70 B	1
	44054•	24	42	37,9	T 70 B	1
	44055•	2 x 6	2 x 83	2 x 8,6	T 70 B	1
	44056•	2 x 9	2 x 56	2 x 12,9	T 70 B	1
	44057•	2 x 12	2 x 42	2 x 19	T 70 B	1
	44058•	2 x 15	2 x 33	2 x 23,6	T 70 B	1
	44059•	2 x 18	2 x 28	2 x 24,9	T 70 B	1
	44060**	2 x 24	2 x 21	2 x 37,9	T 70 B	1

• Items usually available on stock

	44326	6	250	10,1	ta 70/B	1,5
	44327	9	167	15,3	ta 70/B	1,5
	44328	12	125	20,2	ta 70/B	1,5
	44329	15	100	25,3	ta 70/B	1,5
	44330	18	83	31,2	ta 70/B	1,5
	44331	24	63	43,3	ta 70/B	1,5
	44332	2 x 6	125	2 x 10,1	ta 70/B	1,5
	44333	2 x 9	83	2 x 15,3	ta 70/B	1,5
	44334	2 x 12	63	2 x 20,2	ta 70/B	1,5
	44335	2 x 15	50	2 x 25,0	ta 70/B	1,5
	44336*	2 x 18	42	2 x 31	ta 70/B	1,5
	44337*	2 x 24	31	2 x 43	ta 70/B	1,5

	44830	6	300	10,1	ta 70/B	1,8
	44831	9	200	15,2	ta 70/B	1,8
	44832	12	150	20,3	ta 70/B	1,8
	44833	15	120	27,3	ta 70/B	1,8
	44834	18	100	30,4	ta 70/B	1,8
	44835	24	75	40,6	ta 70/B	1,8
	44836	2 x 6	2 x 150	2 x 10,1	ta 70/B	1,8
	44837	2 x 9	2 x 100	2 x 15,2	ta 70/B	1,8
	44838	2 x 12	2 x 75	2 x 20,3	ta 70/B	1,8
	44839*	2 x 15	2 x 60	2 x 27,3	ta 70/B	1,8

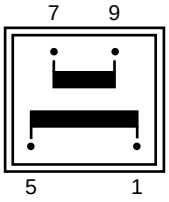
PRIMARY VOLTAGE 117 V

Protection	Reference	Secondary voltage V	Secondary current m A	No-load voltage V	Ambient Temperature °C	Rating VA
	44097	6	250	9,7	T 70 B	1,5
	44098	9	167	14,5	T 70 B	1,5
	44099	12	125	19,3	T 70 B	1,5
	44100	15	100	24,2	T 70 B	1,5
	44101	18	83	29,8	T 70 B	1,5
	44102	24	63	38,6	T 70 B	1,5
	44103	2 X 6	2 x 125	2 x 9,7	T 70 B	1,5
	44104	2 x 9	2 x 83	2 x 15	T 70 B	1,5
	44105	2 x 12	2 x 63	2 x 19,3	T 70 B	1,5
	44106	2 x 15	2 x 50	2 x 24,2	T 70 B	1,5
	44107	2 x 18	2 x 42	2 x 29	T 70 B	1,5
	44108	2 x 24	2 x 31	2 x 38,6	T 70 B	1,5
	44726	6	283	9,8	T 50 B	1,7
	44727	9	189	14,8	T 50 B	1,7
	44728	12	142	19,7	T 50 B	1,7
	44729	15	113	24,6	T 50 B	1,7
	44730	18	94	30,3	T 50 B	1,7
	44731	24	71	39,3	T 50 B	1,7
	44732	2 x 6	2 x 142	2 x 9,8	T 50 B	1,7
	44733	2 x 9	2 x 94	2 x 15,2	T 50 B	1,7
	44734	2 x 12	2 x 71	2 x 19,7	T 50 B	1,7
	44735	2 x 15	2 x 57	2 x 24,6	T 50 B	1,7
	44736	2 x 18	2 x 47	2 x 29,5	T 50 B	1,7
	44737	2 x 24	2 x 35	2 x 39,3	T 50 B	1,7
	44738	6	300	9,8	T 40 B	1,8
	44739	9	200	14,8	T 40 B	1,8
	44740	12	150	19,7	T 40 B	1,8
	44741	15	120	24,6	T 40 B	1,8
	44742	18	100	30,3	T 40 B	1,8
	44743	24	75	39,3	T 40 B	1,8
	44744	2 x 6	2 x 150	2 x 9,8	T 40 B	1,8
	44745	2 x 9	2 x 100	2 x 15,2	T 40 B	1,8
	44746	2 x 12	2 x 75	2 x 19,7	T 40 B	1,8
	44747	2 x 15	2 x 60	2 x 24,6	T 40 B	1,8
	44748	2 x 18	2 x 50	2 x 29,5	T 40 B	1,8
	44749	2 x 24	2 x 38	2 x 39,3	T 40 B	1,8

EN 61558-2-6

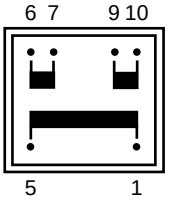
- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 VO
- Degree of protection IP 00
- 80 grams weight
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Inherently short-circuits proof
- 30 V model is VDE EN 61558-2-6 certified (production on request)

1 Secondary winding



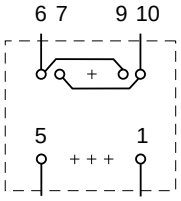
Primary winding

2 Secondary windings



Primary winding

Recommended layout for transformers with 1 secondary winding



(Allows the use of a transformer with 2 secondary windings)

QUALITY IN SERIES

ENCAPSULATED TRANSFORMERS 44000 SERIES

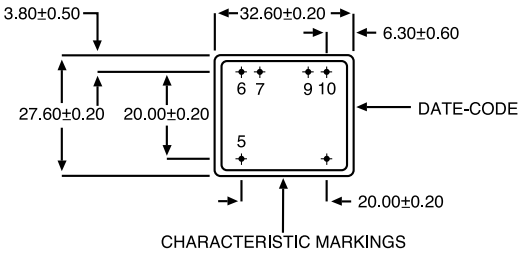
myrra a discoverIE group company

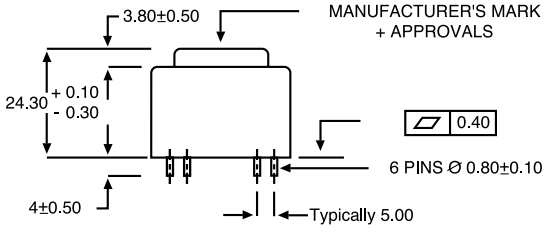
*design on request at myrra.com

EN 60950 UL 5085

- Insulation voltage 4 KV
- 100 % tested production
- Certification : CCA procedure on request

*To be noted : 2 x 18 V and 2 x 24 V models are non-approved.
Those transformers meet all requirement of EN 61558-2-4





** RECOMMENDED DRILL-HOLE DIAMETER FOR 1,3 mm PINS

PRIMARY VOLTAGE 230 V

Protection	Reference	Secondary voltage V	Secondary current m A	No-load voltage V	Ambient Temperature °C	Rating VA
	44085•	6	250	9,7	T 70 B	1,5
	44086•	9	167	14,5	T 70 B	1,5
	44087•	12	125	19,3	T 70 B	1,5
	44088•	15	100	24,2	T 70 B	1,5
	44089•	18	83	29,8	T 70 B	1,5
	44090•	24	63	38,6	T 70 B	1,5
	44091•	2 X 6	2 x 125	2 x 9,7	T 70 B	1,5
	44092•	2 x 9	2 x 83	2 x 15	T 70 B	1,5
	44093•	2 x 12	2 x 63	2 x 19,3	T 70 B	1,5
	44094•	2 x 15	2 x 50	2 x 24,2	T 70 B	1,5
	44095*•	2 x 18	2 x 42	2 x 29	T 70 B	1,5
	44096*•	2 x 24	2 x 31	2 x 38,6	T 70 B	1,5

• Items usually available on stock

	44647	6	283	9,8	T 50 B	1,7
	44648	9	189	14,8	T 50 B	1,7
	44649	12	142	19,7	T 50 B	1,7
	44650	15	113	24,6	T 50 B	1,7
	44651	18	94	30,3	T 50 B	1,7
	44652	24	71	39,3	T 50 B	1,7
	44653	2 x 6	2 x 142	2 x 9,8	T 50 B	1,7
	44654	2 x 9	2 x 94	2 x 15,2	T 50 B	1,7
	44655	2 x 12	2 x 71	2 x 19,7	T 50 B	1,7
	44656	2 x 15	2 x 57	2 x 24,6	T 50 B	1,7
	44483*	2 x 18	2 x 47	2 x 29,5	T 50 B	1,7
	44484*	2 x 24	2 x 35	2 x 39,3	T 50 B	1,7

	44657	6	300	9,8	T 40 B	1,8
	44658	9	200	14,8	T 40 B	1,8
	44659	12	150	19,7	T 40 B	1,8
	44660	15	120	24,6	T 40 B	1,8
	44661	18	100	30,3	T 40 B	1,8
	44662	24	75	39,3	T 40 B	1,8
	44663	2 x 6	2 x 150	2 x 9,8	T 40 B	1,8
	44664	2 x 9	2 x 100	2 x 15,2	T 40 B	1,8
	44665	2 x 12	2 x 75	2 x 19,7	T 40 B	1,8
	44666	2 x 15	2 x 60	2 x 24,6	T 40 B	1,8
	44485*	2 x 18	2 x 50	2 x 29,5	T 40 B	1,8
	44486*	2 x 24	2 x 38	2 x 39,3	T 40 B	1,8

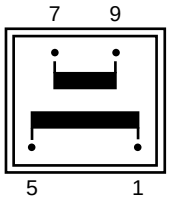
PRIMARY VOLTAGE 117 V

Protection	Reference	Secondary voltage V	Secondary current m A	No-load voltage V	Ambient Temperature °C	Rating VA
	44133	6	333	10,4	T 70 B	2
	44134	9	222	15,5	T 70 B	2
	44135	12	167	20,7	T 70 B	2
	44136	15	133	25,8	T 70 B	2
	44137	18	111	30,8	T 70 B	2
	44138	24	83	41,4	T 70 B	2
	44139	2 X 6	2 x 167	2 x 10,4	T 70 B	2
	44140	2 x 9	2 x 111	2 x 15,4	T 70 B	2
	44141	2 x 12	2 x 83	2 x 20,7	T 70 B	2
	44142	2 x 15	2 x 67	2 x 25,8	T 70 B	2
	44143	2 x 18	2 x 56	2 x 30,8	T 70 B	2
	44144	2 x 24	2 x 42	2 x 41,4	T 70 B	2
	44750	6	383	10,5	T 50 B	2,3
	44751	9	256	15,5	T 50 B	2,3
	44752	12	192	21	T 50 B	2,3
	44753	15	153	25,3	T 50 B	2,3
	44754	18	128	31	T 50 B	2,3
	44755	24	96	42	T 50 B	2,3
	44756	2 x 6	2 x 192	2 x 10,5	T 50 B	2,3
	44757	2 x 9	2 x 128	2 x 15,5	T 50 B	2,3
	44758	2 x 12	2 x 96	2 x 21	T 50 B	2,3
	44759	2 x 15	2 x 77	2 x 24,5	T 50 B	2,3
	44760	2 x 18	2 x 64	2 x 31	T 50 B	2,3
	44761	2 x 24	2 x 48	2 x 42	T 50 B	2,3
	44762	6	400	10,5	T 40 B	2,4
	44763	9	267	15,5	T 40 B	2,4
	44764	12	200	21	T 40 B	2,4
	44765	15	160	25,3	T 40 B	2,4
	44766	18	133	31	T 40 B	2,4
	44767	24	100	42	T 40 B	2,4
	44768	2 x 6	2 x 200	2 x 10,5	T 40 B	2,4
	44769	2 x 9	2 x 133	2 x 15,5	T 40 B	2,4
	44770	2 x 12	2 x 100	2 x 21	T 40 B	2,4
	44771	2 x 15	2 x 80	2 x 24,5	T 40 B	2,4
	44772	2 x 18	2 x 67	2 x 31	T 40 B	2,4
	44773	2 x 24	2 x 50	2 x 42	T 40 B	2,4

EN 61558-2-6

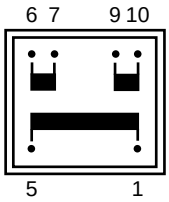
- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 VO
- Degree of protection IP 00
- 100 grams weight
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Inherently short-circuits proof
- 30 V model is VDE EN 61558-2-6 certified (production on request)
- Insulation voltage 4 KV

1 Secondary winding



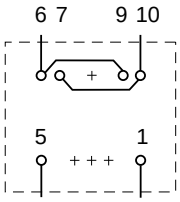
Primary winding

2 Secondary windings



Primary winding

Recommended layout for transformers with 1 secondary winding



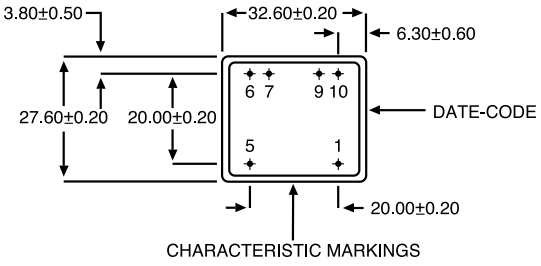
(Allows the use of a transformer with 2 secondary windings)

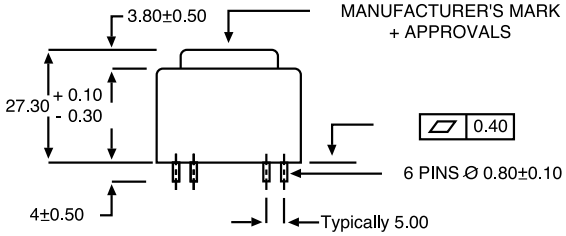
*design on request at myrra.com

EN 60950 UL 5085

- 100 % tested production
- Certification : CCA procedure on request

*To be noted : 2 x 18 V and 2 x 24 V models are non-approved.
Those transformers meet all requirement of EN 61558-2-4





** RECOMMENDED DRILL-HOLE DIAMETER FOR 1.3 mm PINS

PRIMARY VOLTAGE 230 V

Protection	Reference	Secondary voltage V	Secondary current m A	No-load voltage V	Ambient Temperature °C	Rating VA
	44121•	6	333	10,4	T 70 B	2
	44122•	9	222	15,5	T 70 B	2
	44123•	12	167	20,7	T 70 B	2
	44124•	15	133	25,8	T 70 B	2
	44125•	18	111	30,8	T 70 B	2
	44126•	24	83	41,4	T 70 B	2
	44127•	2 X 6	2 x 167	2 x 10,4	T 70 B	2
	44128•	2 x 9	2 x 111	2 x 15,4	T 70 B	2
	44129•	2 x 12	2 x 83	2 x 20,7	T 70 B	2
	44130•	2 x 15	2 x 67	2 x 25,8	T 70 B	2
	44131*•	2 x 18	2 x 56	2 x 30,8	T 70 B	2
	44132*•	2 x 24	2 x 42	2 x 41,4	T 70 B	2

• Items usually available on stock

	44667	6	383	10,5	T 50 B	2,3
	44668	9	256	15,5	T 50 B	2,3
	44669	12	192	21	T 50 B	2,3
	44670	15	153	25,3	T 50 B	2,3
	44671	18	128	31	T 50 B	2,3
	44672	24	96	42	T 50 B	2,3
	44673	2 x 6	2 x 192	2 x 10,5	T 50 B	2,3
	44674	2 x 9	2 x 128	2 x 15,5	T 50 B	2,3
	44675	2 x 12	2 x 96	2 x 21	T 50 B	2,3
	44676	2 x 15	2 x 77	2 x 24,5	T 50 B	2,3
	44487*	2 x 18	2 x 64	2 x 31	T 50 B	2,3
	44488*	2 x 24	2 x 48	2 x 42	T 50 B	2,3

	44677	6	400	10,5	T 40 B	2,4
	44678	9	267	15,5	T 40 B	2,4
	44679	12	200	21	T 40 B	2,4
	44680	15	160	25,3	T 40 B	2,4
	44681	18	133	31	T 40 B	2,4
	44682	24	100	42	T 40 B	2,4
	44683	2 x 6	2 x 200	2 x 10,5	T 40 B	2,4
	44684	2 x 9	2 x 133	2 x 15,5	T 40 B	2,4
	44685	2 x 12	2 x 100	2 x 21	T 40 B	2,4
	44686	2 x 15	2 x 80	2 x 24,5	T 40 B	2,4
	44489*	2 x 18	2 x 67	2 x 31	T 40 B	2,4
	44490*	2 x 24	2 x 50	2 x 42	T 40 B	2,4

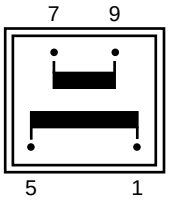
PRIMARY VOLTAGE 117 V

Protection	Reference	Secondary voltage V	Secondary current m A	No-load voltage V	Ambient Temperature °C	Rating VA
	44169	6	383	10,5	T 70 B	2,3
	44170	9	256	15,7	T 70 B	2,3
	44171	12	192	21	T 70 B	2,3
	44172	15	153	25,9	T 70 B	2,3
	44173	18	128	31,4	T 70 B	2,3
	44174	24	96	41,9	T 70 B	2,3
	44175	2 X 6	2 x 192	2 x 10,5	T 70 B	2,3
	44176	2 x 9	2 x 128	2 x 15,7	T 70 B	2,3
	44177	2 x 12	2 x 96	2 x 21	T 70 B	2,3
	44178	2 x 15	2 x 77	2 x 25,9	T 70 B	2,3
	44179	2 x 18	2 x 64	2 x 31,4	T 70 B	2,3
	44180	2 x 24	2 x 48	2 x 41,9	T 70 B	2,3
	44774	6	450	10,5	T 50 B	2,7
	44775	9	300	15,4	T 50 B	2,7
	44776	12	225	21,1	T 50 B	2,7
	44777	15	180	26,3	T 50 B	2,7
	44778	18	150	30,9	T 50 B	2,7
	44779	24	113	42	T 50 B	2,7
	44780	2 x 6	2 x 225	2 x 10,5	T 50 B	2,7
	44781	2 x 9	2 x 150	2 x 15,4	T 50 B	2,7
	44782	2 x 12	2 x 113	2 x 21,1	T 50 B	2,7
	44783	2 x 15	2 x 90	2 x 26,3	T 50 B	2,7
	44784	2 x 18	2 x 75	2 x 31,5	T 50 B	2,7
	44785	2 x 24	2 x 56	2 x 42,1	T 50 B	2,7
	44786	6	467	10,5	T 40 B	2,8
	44787	9	311	15,4	T 40 B	2,8
	44788	12	233	21,1	T 40 B	2,8
	44789	15	187	26,3	T 40 B	2,8
	44790	18	156	30,9	T 40 B	2,8
	44791	24	117	42,1	T 40 B	2,8
	44792	2 x 6	2 x 233	2 x 10,5	T 40 B	2,8
	44793	2 x 9	2 x 156	2 x 15,4	T 40 B	2,8
	44794	2 x 12	2 x 117	2 x 21,1	T 40 B	2,8
	44795	2 x 15	2 x 93	2 x 26,3	T 40 B	2,8
	44796	2 x 18	2 x 77	2 x 31,5	T 40 B	2,8
	44797	2 x 24	2 x 58	2 x 42,1	T 40 B	2,8

EN 61558-2-6

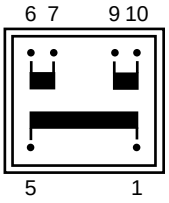
- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 VO
- Degree of protection IP 00
- 70 grams weight
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Inherently short-circuits proof
- 30 V model is VDE EN 61558-2-6 certified (production on request)

1 Secondary winding



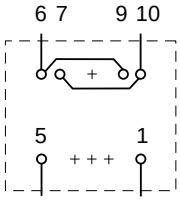
Primary winding

2 Secondary windings



Primary winding

Recommended layout for transformers with 1 secondary winding



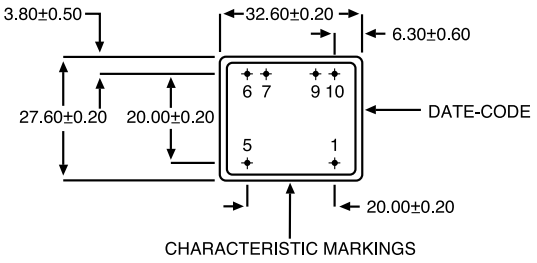
(Allows the use of a transformer with 2 secondary windings)

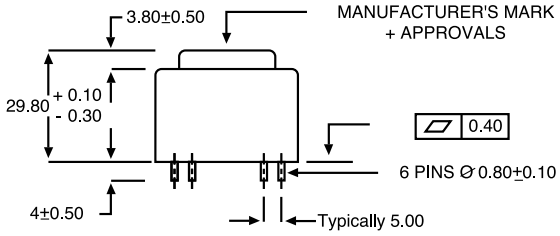
*design on request at myrra.com

EN 60950 UL 5085

- Insulation voltage 4 KV
- 100 % tested production
- Certification : CCA procedure on request

*To be noted : 2 x 18 V and 2 x 24 V models are non-approved.
Those transformers meet all requirement of EN 61558-2-4





** RECOMMENDED DRILL-HOLE DIAMETER FOR 1.3 mm PINS

PRIMARY VOLTAGE 230 V

Protection	Reference	Secondary voltage V	Secondary current m A	No-load voltage V	Ambient Temperature °C	Rating VA
	44157•	6	383	10,5	T 70 B	2,3
	44158•	9	256	15,7	T 70 B	2,3
	44159•	12	192	21	T 70 B	2,3
	44160•	15	153	25,9	T 70 B	2,3
	44161•	18	128	31,4	T 70 B	2,3
	44162•	24	96	41,9	T 70 B	2,3
	44163•	2 X 6	2 x 192	2 x 10,5	T 70 B	2,3
	44164•	2 x 9	2 x 128	2 x 15,7	T 70 B	2,3
	44165•	2 x 12	2 x 96	2 x 21	T 70 B	2,3
	44166•	2 x 15	2 x 77	2 x 25,9	T 70 B	2,3
	44167*•	2 x 18	2 x 64	2 x 31,4	T 70 B	2,3
	44168*•	2 x 24	2 x 48	2 x 41,9	T 70 B	2,3

• Items usually available on stock

	44687	6	450	10,5	T 50 B	2,7
	44688	9	300	15,4	T 50 B	2,7
	44689	12	225	21,1	T 50 B	2,7
	44690	15	180	26,3	T 50 B	2,7
	44691	18	150	30,9	T 50 B	2,7
	44692	24	113	42	T 50 B	2,7
	44693	2 x 6	2 x 225	2 x 10,5	T 50 B	2,7
	44694	2 x 9	2 x 150	2 x 15,4	T 50 B	2,7
	44695	2 x 12	2 x 113	2 x 21,1	T 50 B	2,7
	44696	2 x 15	2 x 90	2 x 26,3	T 50 B	2,7
	44491*	2 x 18	2 x 75	2 x 31,5	T 50 B	2,7
	44492*	2 x 24	2 x 56	2 x 42,1	T 50 B	2,7

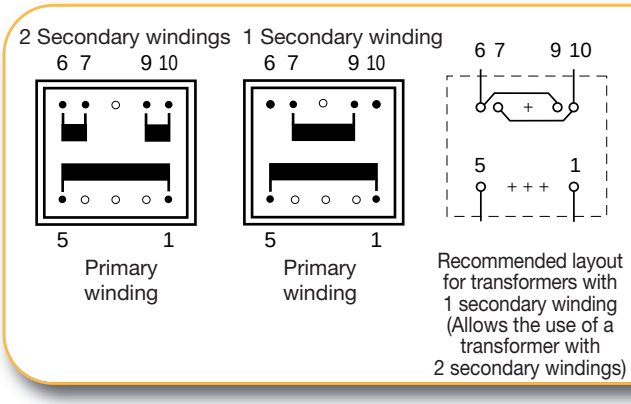
	44697	6	467	10,5	T 40 B	2,8
	44698	9	311	15,4	T 40 B	2,8
	44699	12	233	21,1	T 40 B	2,8
	44700	15	187	26,3	T 40 B	2,8
	44701	18	156	30,9	T 40 B	2,8
	44702	24	117	42,1	T 40 B	2,8
	44703	2 x 6	2 x 233	2 x 10,5	T 40 B	2,8
	44704	2 x 9	2 x 156	2 x 15,4	T 40 B	2,8
	44705	2 x 12	2 x 117	2 x 21,1	T 40 B	2,8
	44706	2 x 15	2 x 93	2 x 26,3	T 40 B	2,8
	44493*	2 x 18	2 x 70	2 x 31,5	T 40 B	2,8
	44494*	2 x 24	2 x 58	2 x 42,1	T 40 B	2,8

PRIMARY VOLTAGE 117 V

Secondary protection mA	Reference	Secondary voltage V	Secondary current m A	No-load voltage V	Ambient Temperature °C	Rating VA
630	44205	6	533	8	T 70 B	3,2
400	44206	9	356	12	T 70 B	3,2
315	44207	12	267	16	T 70 B	3,2
250	44208	15	213	20	T 70 B	3,2
200	44209	18	178	24,1	T 70 B	3,2
160	44210	24	133	32,1	T 70 B	3,2
315	44211	2 x 6	2 x 267	2 x 8	T 70 B	3,2
200	44212	2 x 9	2 x 178	2 x 12	T 70 B	3,2
160	44213	2 x 12	2 x 133	2 x 16	T 70 B	3,2
125	44214	2 x 15	2 x 107	2 x 20	T 70 B	3,2
100	44215	2 x 18	2 x 89	2 x 24	T 70 B	3,2
80	44216	2 x 24	2 x 67	2 x 32,1	T 70 B	3,2

EN 61558-2-6

- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 VO
- Degree of protection IP 00
- 150 grams weight
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Fuse protection on secondary side (see diagram) to be assumed by customer

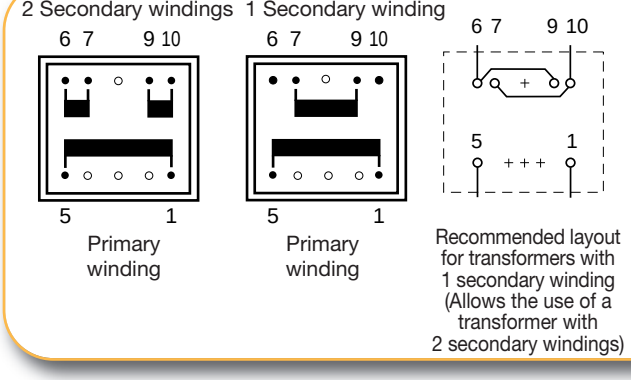


PRIMARY VOLTAGE 117 V

Secondary protection mA	Reference	Secondary voltage V	Secondary current m A	No-load voltage V	Ambient Temperature °C	Rating VA
800	44241	6	833	8,4	T 50 B	5
630	44242	9	556	12,6	T 50 B	5
400	44243	12	417	16,9	T 50 B	5
315	44244	15	333	21	T 50 B	5
315	44245	18	278	25,3	T 50 B	5
200	44246	24	208	33,7	T 50 B	5
400	44247	2 x 6	2 x 417	2 x 8,4	T 50 B	5
315	44248	2 x 9	2 x 278	2 x 12,6	T 50 B	5
200	44249	2 x 12	2 x 208	2 x 16,9	T 50 B	5
160	44250	2 x 15	2 x 167	2 x 21	T 50 B	5
160	44251	2 x 18	2 x 139	2 x 25,3	T 50 B	5
100	44252	2 x 24	2 x 104	2 x 33,7	T 50 B	5

EN 61558-2-6

- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 VO
- Degree of protection IP 00
- 200 grams weight
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Fuse protection on secondary side (see diagram) to be assumed by customer



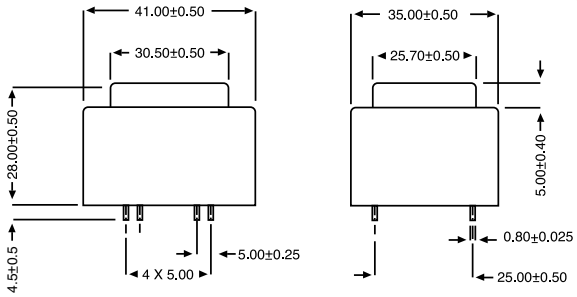
myrra a discoverIE group company

*design on request at myrra.com

EN 60950 UL 5085

- 30 V and 36 V models are VDE EN 61558-2-6 certified (production on request)
- Insulation voltage 4 KV
- 100 % tested production
- Certification : CCA procedure on request

*To be noted : 2 x 24 V model is non-approved.
Those transformers meet all requirement of EN 61558-2-4



** RECOMMENDED DRILL-HOLE DIAMETER FOR 1,3 mm PINS

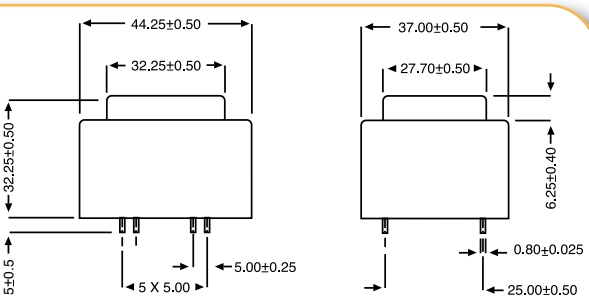
PRIMARY VOLTAGE 230 V

Secondary protection mA	Reference	Secondary voltage V	Secondary current m A	No-load voltage V	Ambient Temperature °C	Rating VA
630	44193	6	533	8	T 70 B	3,2
400	44194	9	356	12	T 70 B	3,2
315	44195	12	267	16	T 70 B	3,2
250	44196	15	213	20	T 70 B	3,2
200	44197	18	178	24,1	T 70 B	3,2
160	44198	24	133	32,1	T 70 B	3,2
315	44199	2 x 6	2 x 267	2 x 8	T 70 B	3,2
200	44200	2 x 9	2 x 178	2 x 12	T 70 B	3,2
160	44201	2 x 12	2 x 133	2 x 16	T 70 B	3,2
125	44202	2 x 15	2 x 107	2 x 20	T 70 B	3,2
100	44203	2 x 18	2 x 89	2 x 24	T 70 B	3,2
80	44204*	2 x 24	2 x 67	2 x 32,1	T 70 B	3,2

EN 60950 UL 5085

- 30 V and 36 V models are VDE EN 61558-2-6 certified (production on request)
- Insulation voltage 4 KV
- 100 % tested production
- Certification : CCA procedure on request

*To be noted : 2 x 24 V model is non-approved.
Those transformers meet all requirement of EN 61558-2-4



** RECOMMENDED DRILL-HOLE DIAMETER FOR 1,3 mm PINS

PRIMARY VOLTAGE 230 V

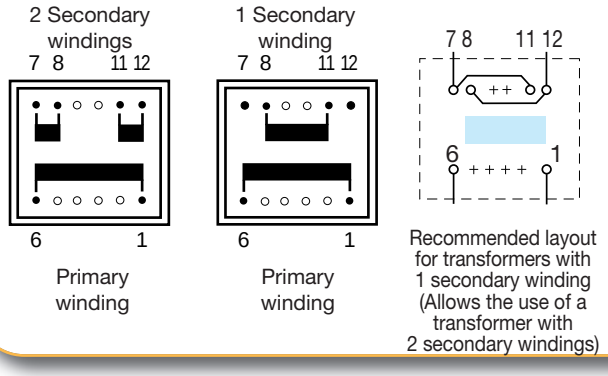
Secondary protection mA	Reference	Secondary voltage V	Secondary current m A	No-load voltage V	Ambient Temperature °C	Rating VA
800	44229	6	833	8,4	T 50 B	5
630	44230	9	556	12,6	T 50 B	5
400	44231	12	417	16,9	T 50 B	5
315	44232	15	333	21	T 50 B	5
315	44233	18	278	25,3	T 50 B	5
200	44234	24	208	33,7	T 50 B	5
400	44235	2 x 6	2 x 417	2 x 8,4	T 50 B	5
315	44236	2 x 9	2 x 278	2 x 12,6	T 50 B	5
200	44237	2 x 12	2 x 208	2 x 16,9	T 50 B	5
160	44238	2 x 15	2 x 167	2 x 21	T 50 B	5
160	44239	2 x 18	2 x 139	2 x 25,3	T 50 B	5
100	44240*	2 x 24	2 x 104	2 x 33,7	T 50 B	5

PRIMARY VOLTAGE 117 V

Primary protection mA	Reference	Secondary voltage V	Secondary current m A	No-load voltage V	Ambient Temperature °C	Rating VA
125	44277	6	1667	7,2	T 50 B	10
125	44278	9	1111	10,8	T 50 B	10
125	44279	12	833	14,4	T 50 B	10
125	44280	15	667	18,1	T 50 B	10
125	44281	18	556	21,6	T 50 B	10
125	44282	24	417	28,9	T 50 B	10
125	44283	2 x 6	2 x 833	2 x 7,2	T 50 B	10
125	44284	2 x 9	2 x 556	2 x 10,8	T 50 B	10
125	44285	2 x 12	2 x 417	2 x 14,4	T 50 B	10
125	44286	2 x 15	2 x 333	2 x 18,1	T 50 B	10
125	44287	2 x 18	2 x 278	2 x 21,6	T 50 B	10
125	44288	2 x 24	2 x 208	2 x 28,9	T 50 B	10

EN 61558-2-6

- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 VO
- Degree of protection IP 00
- 300 grams weight
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Fuse protection on primary side (see diagram) to be assumed by customer

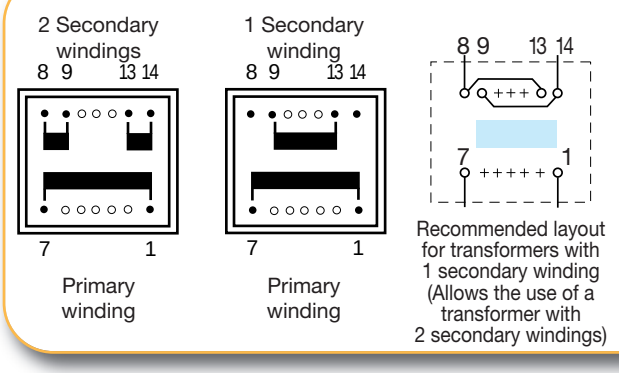


PRIMARY VOLTAGE 117 V

Secondary protection mA	Reference	Secondary voltage V	Secondary current m A	No-load voltage V	Ambient Temperature °C	Rating VA
2,5	44313	6	2667	7,4	T 50 B	16
2,0	44314	9	1778	11,1	T 50 B	16
1,25	44315	12	1333	14,7	T 50 B	16
1	44316	15	1067	18,4	T 50 B	16
1	44317	18	889	22,1	T 50 B	16
0,63	44318	24	667	29,3	T 50 B	16
1,25	44319	2 x 6	2 x 1333	2 x 7,4	T 50 B	16
1	44320	2 x 9	2 x 889	2 x 11,1	T 50 B	16
0,63	44321	2 x 12	2 x 667	2 x 14,7	T 50 B	16
0,5	44322	2 x 15	2 x 533	2 x 18,4	T 50 B	16
0,5	44323	2 x 18	2 x 444	2 x 22	T 50 B	16
0,315	44324	2 x 24	2 x 333	2 x 29,3	T 50 B	16

EN 61558-2-6

- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 VO
- Degree of protection IP 00
- 400 grams weight
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Fuse protection on secondary side (see diagram) to be assumed by customer

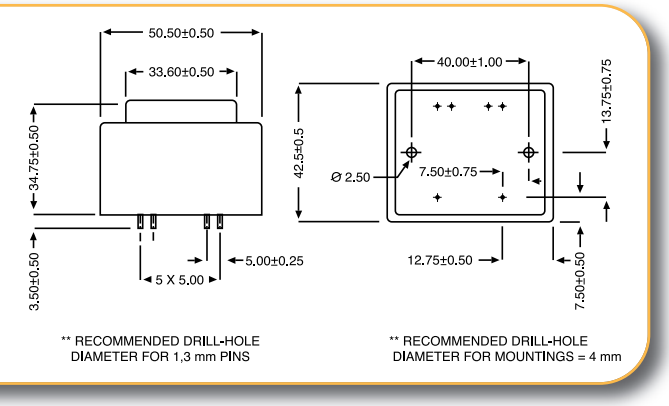


*design on request at myrra.com

EN 60950 UL 5085 10

- 30 V and 36 V models are VDE EN 61558-2-6 certified (production on request)
- Insulation voltage 4 KV
- 100 % tested production
- Certification : CCA procedure on request

*To be noted : 2 x 24 V model is non-approved.
Those transformers meet all requirement of EN 61558-2-4



PRIMARY VOLTAGE 230 V

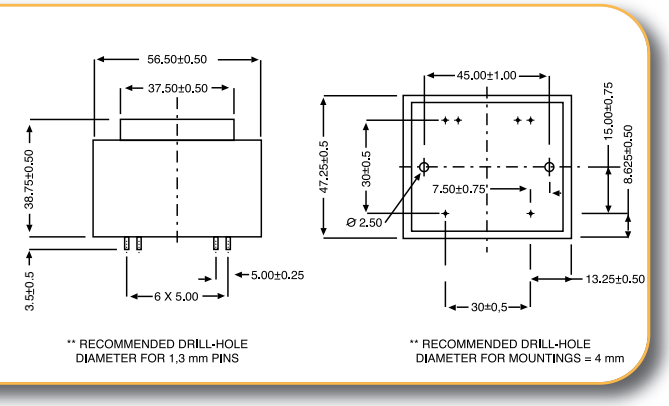
Primary protection mA	Reference	Secondary voltage V	Secondary current m A	No-load voltage V	Ambient Temperature °C	Rating VA
63	44265	6	1667	7,2	T 50 B	10
63	44266	9	1111	10,8	T 50 B	10
63	44267	12	833	14,4	T 50 B	10
63	44268	15	667	18,1	T 50 B	10
63	44269	18	556	21,6	T 50 B	10
63	44270	24	417	28,9	T 50 B	10
63	44271	2 x 6	2 x 833	2 x 7,2	T 50 B	10
63	44272	2 x 9	2 x 556	2 x 10,8	T 50 B	10
63	44273	2 x 12	2 x 417	2 x 14,4	T 50 B	10
63	44274	2 x 15	2 x 333	2 x 18,1	T 50 B	10
63	44275	2 x 18	2 x 278	2 x 21,6	T 50 B	10
63	44276*	2 x 24	2 x 208	2 x 28,9	T 50 B	10

16 VA EI 54-18,8 SERIE 44000

EN 60950 UL 5085 10

- 30 V and 36 V models are VDE EN 61558-2-6 certified (production on request)
- Insulation voltage 4 KV
- 100 % tested production
- Certification : CCA procedure on request

*To be noted : 2 x 24 V model is non-approved.
Those transformers meet all requirement of EN 61558-2-4



PRIMARY VOLTAGE 230 V

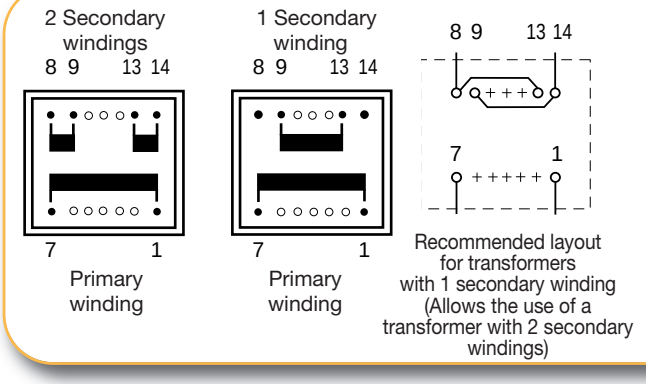
Secondary protection mA	Reference	Secondary voltage V	Secondary current m A	No-load voltage V	Ambient Temperature °C	Rating VA
2,500	44301	6	2667	7,4	T 50 B	16
2,000	44302	9	1778	11,1	T 50 B	16
1,25	44303	12	1333	14,7	T 50 B	16
1	44304	15	1067	18,4	T 50 B	16
1	44305	18	889	22,1	T 50 B	16
0,63	44306	24	667	29,3	T 50 B	16
1,25	44307	2 x 6	2 x 1333	2 x 7,4	T 50 B	16
1	44308	2 x 9	2 x 889	2 x 11,1	T 50 B	16
0,63	44309	2 x 12	2 x 667	2 x 14,7	T 50 B	16
0,5	44310	2 x 15	2 x 533	2 x 18,4	T 50 B	16
0,5	44311	2 x 18	2 x 444	2 x 22	T 50 B	16
0,315	44312*	2 x 24	2 x 333	2 x 29,3	T 50 B	16

PRIMARY VOLTAGE 117 V

Primary protection mA	Reference	Secondary voltage V	Secondary current m A	No-load voltage V	Ambient Temperature °C	Rating VA
250	44444	6	3667	6,8	T 50 B	22
250	44445	9	2444	10,3	T 50 B	22
250	44446	12	1833	13,7	T 50 B	22
250	44447	15	1467	17,1	T 50 B	22
250	44448	18	1222	20,5	T 50 B	22
250	44449	24	917	27,3	T 50 B	22
250	44450	2 x 6	2 x 1833	2 x 6,8	T 50 B	22
250	44451	2 x 9	2 x 1222	2 x 10,3	T 50 B	22
250	44452	2 x 12	2 x 917	2 x 13,7	T 50 B	22
250	44453	2 x 15	2 x 733	2 x 17,1	T 50 B	22
250	44454	2 x 18	2 x 611	2 x 20,5	T 50 B	22
250	44455	2 x 24	2 x 458	2 x 27,3	T 50 B	22

EN 61558-2-6

- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 VO
- Degree of protection IP 00
- 550 grams weight
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Fuse protection on primary side (see diagram) to be assumed by customer

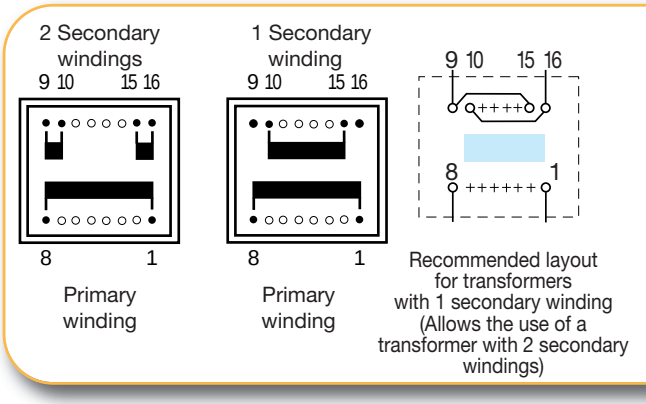


PRIMARY VOLTAGE 117 V

Primary protection mA	Reference	Secondary voltage V	Secondary current m A	No-load voltage V	Ambient Temperature °C	Rating VA
315	44385	6	5000	6,9	T 50 B	30
315	44386	9	3333	10,3	T 50 B	30
315	44387	12	2500	13,8	T 50 B	30
315	44388	15	2000	17,2	T 50 B	30
315	44389	18	1667	20,8	T 50 B	30
315	44390	24	1250	27,7	T 50 B	30
315	44391	2 x 6	2 x 2500	2 x 6,9	T 50 B	30
315	44392	2 x 9	2 x 1667	2 x 10,3	T 50 B	30
315	44393	2 x 12	2 x 1250	2 x 13,8	T 50 B	30
315	44394	2 x 15	2 x 1000	2 x 17,2	T 50 B	30
315	44395	2 x 18	2 x 833	2 x 20,8	T 50 B	30
315	44396	2 x 24	2 x 625	2 x 27,7	T 50 B	30

EN 61558-2-6

- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 VO
- Degree of protection IP 00
- 700 grams weight
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Fuse protection on primary side (see diagram) to be assumed by customer

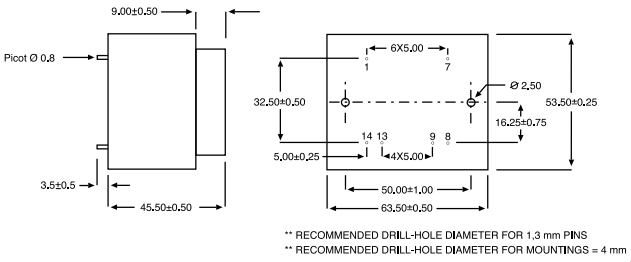


*design on request at myrra.com

EN 60950 UL 5085

- 30 V and 36 V models are VDE EN 61558-2-6 certified (production on request)
- Insulation voltage 4 KV
- 100 % tested production
- Certification : CCA procedure on request

*To be noted : 2 x 24 V model is non-approved.
Those transformers meet all requirement of EN 61558-2-4



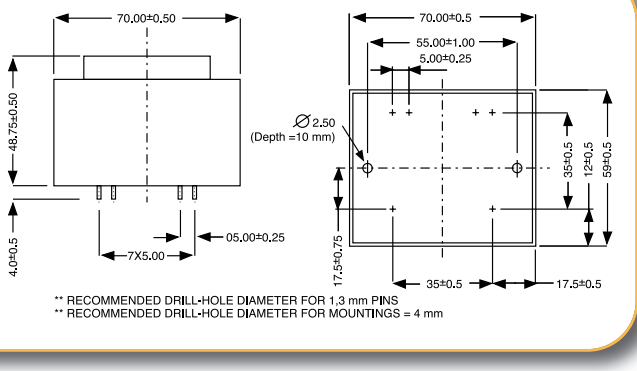
PRIMARY VOLTAGE 230 V

Primary protection mA	Reference	Secondary voltage V	Secondary current m A	No-load voltage V	Ambient Temperature °C	Rating VA
125	44432	6	3667	6,8	T 50 B	22
125	44433	9	2444	10,3	T 50 B	22
125	44434	12	1833	13,7	T 50 B	22
125	44435	15	1467	17,1	T 50 B	22
125	44436	18	1222	20,5	T 50 B	22
125	44437	24	917	27,3	T 50 B	22
125	44438	2 x 6	2 x 1833	2 x 6,8	T 50 B	22
125	44439	2 x 9	2 x 1222	2 x 10,3	T 50 B	22
125	44440	2 x 12	2 x 917	2 x 13,7	T 50 B	22
125	44441	2 x 15	2 x 733	2 x 17,1	T 50 B	22
125	44442	2 x 18	2 x 611	2 x 20,5	T 50 B	22
125	44443*	2 x 24	2 x 458	2 x 27,3	T 50 B	22

EN 60950 UL 5085

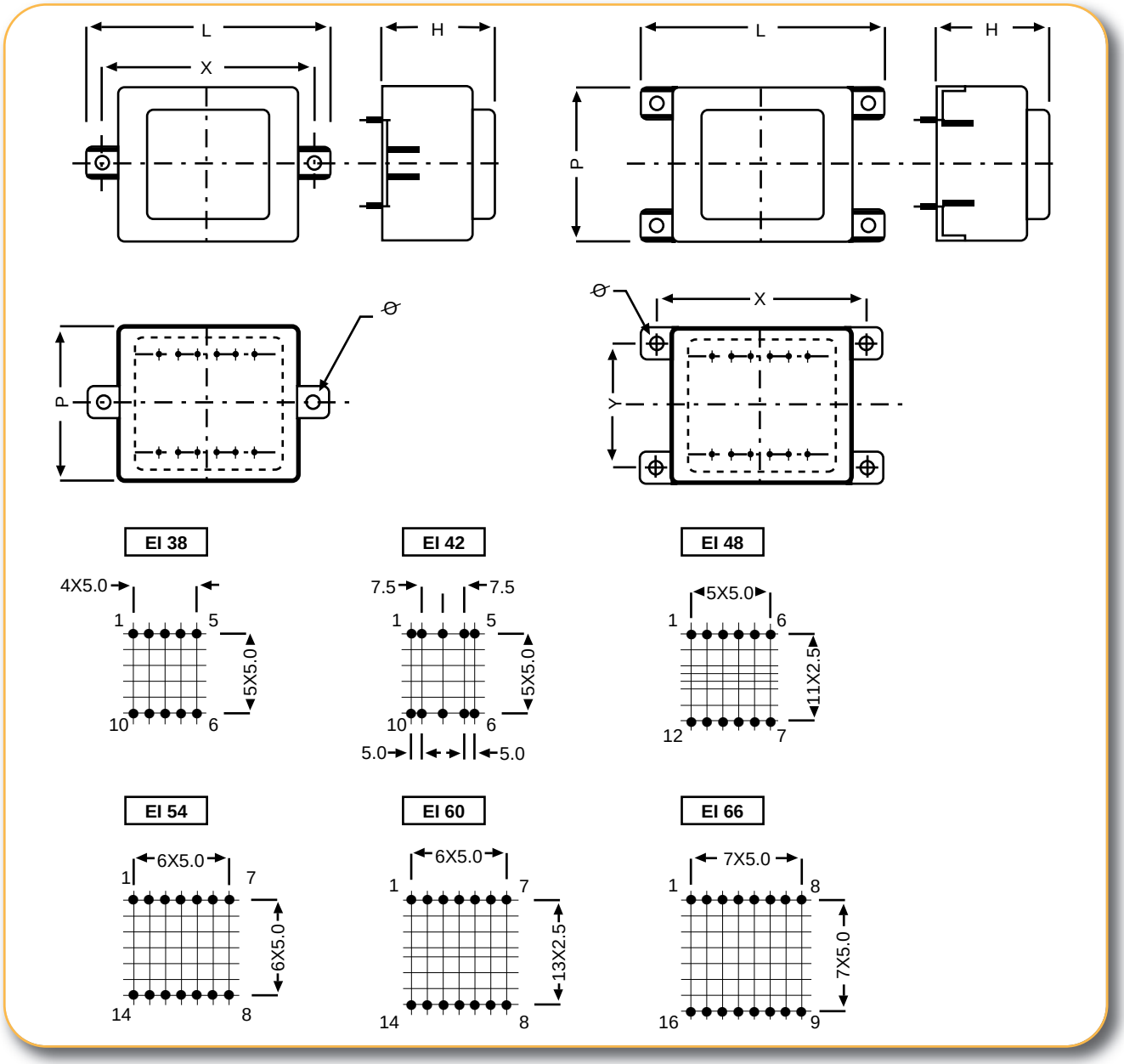
- 30 V and 36 V models are VDE EN 61558-2-6 certified (production on request)
- Insulation voltage 4 KV
- 100 % tested production
- Certification : CCA procedure on request

*To be noted : 2 x 24 V model is non-approved.
Those transformers meet all requirement of EN 61558-2-4



PRIMARY VOLTAGE 230 V

Primary protection mA	Reference	Secondary voltage V	Secondary current m A	No-load voltage V	Ambient Temperature °C	Rating VA
160	44373	6	5000	6,9	T 50 B	30
160	44374	9	3333	10,3	T 50 B	30
160	44375	12	2500	13,8	T 50 B	30
160	44376	15	2000	17,2	T 50 B	30
160	44377	18	1667	20,8	T 50 B	30
160	44378	24	1250	27,7	T 50 B	30
160	44379	2 x 6	2 x 2500	2 x 6,9	T 50 B	30
160	44380	2 x 9	2 x 1667	2 x 10,3	T 50 B	30
160	44381	2 x 12	2 x 1250	2 x 13,8	T 50 B	30
160	44382	2 x 15	2 x 1000	2 x 17,2	T 50 B	30
160	44383	2 x 18	2 x 833	2 x 20,8	T 50 B	30
160	44384*	2 x 24	2 x 625	2 x 27,7	T 50 B	30



CIRCUIT	L ± 0,50	P ± 0,40	H ± 0,40	X ± 0,50	Y ± 0,50	Ø ±0,3
EI 38 X 13,6	55,6	34,9	28,1	47,5		3,2
EI 42 X 14,8	64	37	32,3	55,0		4,2
EI 48 X 16,8	69	42,3	34,6	60		4,2
EI 54 X 18,8	74	47,3	38,8	65		4,2
EI 60 X 21	81,5	53,3	44,7	72,5	43,5	4,2
EI 66 X 23	87,2	58,6	48,5	77,5	47,5	4,2

Series 44000 transformers can be equiped with boxes with lugs and also 2,8 «faston» terminal tags while still conforming to the specifications in the standard references.

- For boxes with 2 lugs and pin type output, add suffix 1 to the reference of the standard transformer (example : 44198-1)
- For boxes with 2 lugs and 2,8 «faston» output, add suffix 2 to the reference of the standard transformer (example : 44199-2)
- For boxes with 4 lugs and pin type output, add suffix 3 to the reference of the standard transformer (example : 44200-3)
- For boxes with 4 lugs and 2,8 «faston» output, add suffix 4 to the reference of the standard transformer (example : 44201-4)

These models are not available on stock.

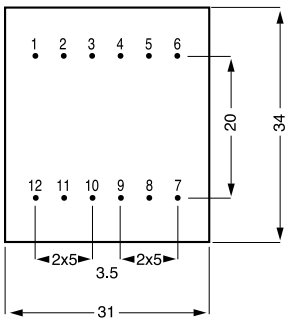
*design on request at myrra.com

EN 61558-2-6 EN 60950 UL 5085

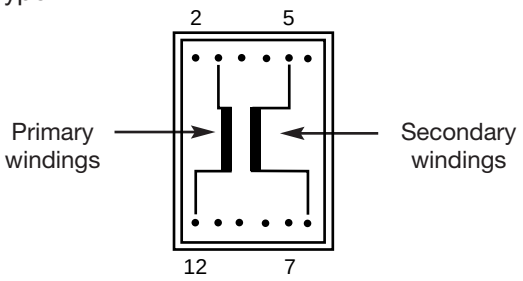
1 VA

- 230 V supply voltage by series/parallel connection
- Vacuum filling
- One compartiment housing 1 VA
- Two compartments bobbins 0,8 VA
- Degree of protection IP 00
- 50 grams weight
- Resin UL 94 VO
- Design protection against short-circuits
- Insulation voltage 4 KV
- 100 % tested production

Conform to EN 61558 - UL 5085



Type 1 VA



PRIMARY VOLTAGE 230 V

Protection	Reference	Secondary voltage V	Secondary current m A	No-load voltage V	Ambient Temperature °C
UI 21		**230 V**		**1 VA**	
	45001	6	167	11,4	T 70 B
	45002	9	111	17	T 70 B
	45003	12	83	22,8	T 70 B
	45004	15	67	28,5	T 70 B
	45005	18	56	34,2	T 70 B
	45006	24	42	45,6	T 70 B

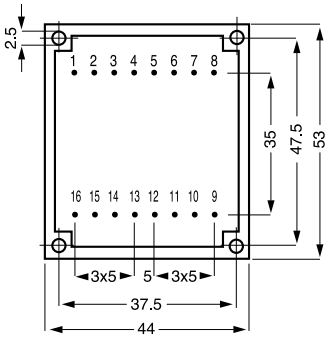
QUALITY IN SERIES

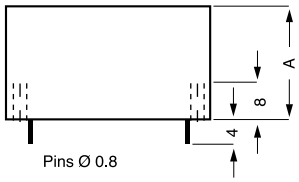
EN 61558-2-6

PRIMARY VOLTAGE 115 V - 230 V

Protection	Reference	Secondary voltage V	Secondary current m A	No-load voltage V	Ambient Temperature °C
UI 30 x 5,5				**2 VA**	
	45292	2 x 6	2 x 167	2 x 10,2	T 70 B
	45293	2 x 9	2 x 111	2 x 15,9	T 70 B
	45294	2 x12	2 x 83	2 x 20,4	T 70 B
	45295	2 x15	2 x 67	2 x 25,5	T 70 B
	45296	2 x18	2 x 56	2 x 30,6	T 70 B
	45297	2 x24	2 x 42	2 x 40,8	T 70 B
UI 30 x 5,5		**Secondary protection mA**		**3 VA**	
250	45013	2 x 6	2 x 250	2 x 9,8	T 70 B
160	45014	2 x 9	2 x 167	2 x 14,7	T 70 B
125	45015	2 x 12	2 x 125	2 x 19,6	T 70 B
100	45016	2 x 15	2 x 100	2 x 24,5	T 70 B
80	45017	2 x 18	2 x 83	2 x 29,5	T 70 B
63	45018	2 x 24	2 x 63	2 x 39,3	T 70 B
UI 30 x 7,5		**Secondary protection mA**		**4 VA**	
315	45019	2 x 6	2 x 333	2 x 9,4	T 70 B
250	45020	2 x 9	2 x 222	2 x 14,0	T 70 B
160	45021	2 x 12	2 x 167	2 x 18,6	T 70 B
125	45022	2 x 15	2 x 133	2 x 23,3	T 70 B
125	45023	2 x 18	2 x 111	2 x 28,0	T 70 B
80	45024	2 x 24	2 x 83	2 x 37,4	T 70 B
UI 30 x 10,5		**Secondary protection mA**		**6 VA**	
500	45025	2 x 6	2 x 500	2 x 8,1	T 70 B
315	45026	2 x 9	2 x 333	2 x 12,1	T 70 B
250	45027	2 x 12	2 x 250	2 x 16,2	T 70 B
200	45028	2 x 15	2 x 200	2 x 20,2	T 70 B
160	45029	2 x 18	2 x 167	2 x 24,3	T 70 B
125	45030	2 x 24	2 x 125	2 x 32,3	T 70 B
UI 30 x 16,5		**Primary protection mA**		**10 VA**	
125/63	45031	2 x 6	2 x 833	2 x 7,9	T 50 B
125/63	45032	2 x 9	2 x 556	2 x 11,9	T 50 B
125/63	45033	2 x 12	2 x 417	2 x 15,9	T 50 B
125/63	45034	2 x 15	2 x 333	2 x 19,8	T 50 B
125/63	45035	2 x 18	2 x 278	2 x 23,7	T 50 B
125/63	45036	2 x 24	2 x 208	2 x 31,7	T 50 B

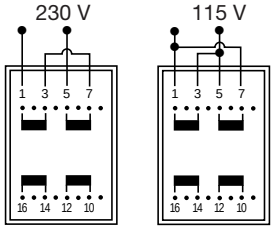
- 115 V- 230 V supply voltage by series/parallel connection
- Vacuum filling
- Two compartments bobbins
- Degree of protection IP 00
- Resin class UL 94 VO



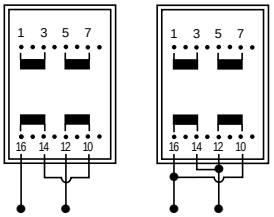


CIRCUIT	RATING	DIMENSION A	WEIGHT
UI 30 x 5,5	2 VA/3 VA	A = 17 mm	125 g
UI 30 x 7,5	4 VA	A = 19 mm	150 g
UI 30 x 10,5	6 VA	A = 22 mm	185 g
UI 30 x 16,5	10 VA	A = 28 mm	260 g

Possible primary connections



Possible secondary connections



Secondary voltage doubled

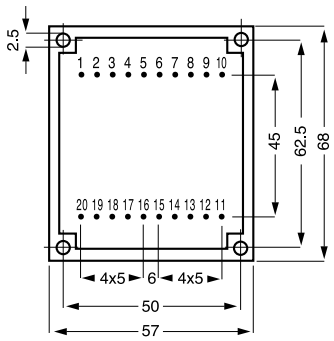
Double the secondary current

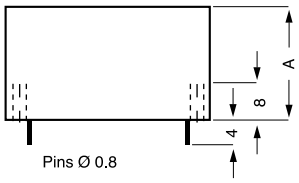
QUALITY IN SERIES

*design on request at myrra.com

EN 60950 UL 5085

- Fuse protection in secondary winding (see diagram)
- Insulation voltage 4 KV
- 100 % tested production
- Conform to EN 61558
  Approval under process
- UL 5085 approved

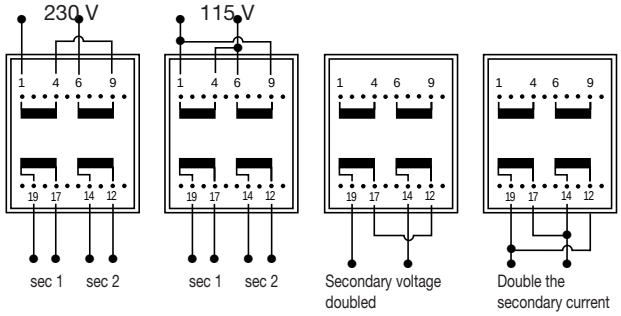




CIRCUIT	RATING	DIMENSION A	WEIGHT
UI 39 x 8	10 VA	A = 22 mm	285 g
UI 39 x 10,2	14 VA	A = 24 mm	335 g
UI 39 x 13,5	18 VA	A = 27 mm	405 g
UI 39 x 17	24 VA	A = 31 mm	480 g
UI 39 x 21	30 VA	A = 35 mm	550 g

Possible primary connections

Possible secondary connections



PRIMARY VOLTAGE 115 V - 230 V

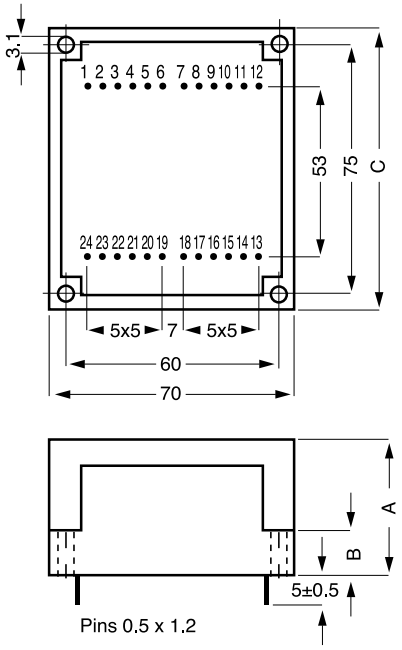
Primary protection 115 V/230 V mA	Reference	Secondary voltage V	Secondary current m A	No-load voltage V	Ambient Temperature °C
UI 39 x 8					**10 VA**
125/63	45037	2 x 6	2 x 833	2 x 8,2	T 50 B
125/63	45038	2 x 9	2 x 555	2 x 12,3	T 50 B
125/63	45039	2 x 12	2 x 416	2 x 16,4	T 50 B
125/63	45040	2 x 15	2 x 333	2 x 20,5	T 50 B
125/63	45041	2 x 18	2 x 277	2 x 24,6	T 50 B
125/63	45042	2 x 24	2 x 208	2 x 32,8	T 50 B
UI 39 x 10,2					**14 VA**
160/80	45043	2 x 6	2 x 1167	2 x 7,5	T 50 B
160/80	45044	2 x 9	2 x 778	2 x 10,9	T 50 B
160/80	45045	2 x 12	2 x 583	2 x 15,0	T 50 B
160/80	45046	2 x 15	2 x 467	2 x 18,7	T 50 B
160/80	45047	2 x 18	2 x 389	2 x 22,4	T 50 B
160/80	45048	2 x 24	2 x 292	2 x 30,2	T 50 B
UI 39 x 13,5					**18 VA**
200/100	45049	2 x 6	2 x 1500	2 x 7,4	T 50 B
200/100	45050	2 x 9	2 x 1000	2 x 11,0	T 50 B
200/100	45051	2 x 12	2 x 750	2 x 14,7	T 50 B
200/100	45052	2 x 15	2 x 600	2 x 18,3	T 50 B
200/100	45053	2 x 18	2 x 500	2 x 22,0	T 50 B
200/100	45054	2 x 24	2 x 375	2 x 29,4	T 50 B
UI 39 x 17					**24 VA**
250/125	45055	2 x 6	2 x 2000	2 x 7,1	T 50 B
250/125	45056	2 x 9	2 x 1333	2 x 10,6	T 50 B
250/125	45057	2 x 12	2 x 1000	2 x 14,1	T 50 B
250/125	45058	2 x 15	2 x 800	2 x 17,6	T 50 B
250/125	45059	2 x 18	2 x 667	2 x 21,2	T 50 B
250/125	45060	2 x 24	2 x 500	2 x 28,3	T 50 B
UI 39 x 21					**30 VA**
315/160	45061	2 x 6	2 x 2500	2 x 6,7	T 50 B
315/160	45062	2 x 9	2 x 1667	2 x 10,15	T 50 B
315/160	45063	2 x 12	2 x 1250	2 x 13,5	T 50 B
315/160	45064	2 x 15	2 x 1000	2 x 16,8	T 50 B
315/160	45065	2 x 18	2 x 833	2 x 20,2	T 50 B
315/160	45066	2 x 24	2 x 625	2 x 27,0	T 50 B

EN 61558-2-6 EN 60950 UL 5085

- 115 V- 230 V supply voltage by series/parallel connection
- Vacuum filling
- Two compartments bobbins
- Degree of protection IP 00
- Resin class UL 94 VO
- Fuse protection in secondary winding (see diagram)
- Insulation voltage 4 KV
- 100 % tested production
- Conform to EN 61558 Approval under process
- UL 5085 approved

PRIMARY VOLTAGE 115 V - 230 V

Primary protection 115/230 V mA	Reference	Secondary voltage V	Secondary current m A	No-load voltage V	Ambient Temperature °C
U I 48 x 17				**40 VA**	
400/200	45067	2 x 6	2 x 3333	2 x 6,7	T 50 B
400/200	45068	2 x 9	2 x 2222	2 x 10,0	T 50 B
400/200	45069	2 x 12	2 x 1667	2 x 13,4	T 50 B
400/200	45070	2 x 15	2 x 1333	2 x 16,7	T 50 B
400/200	45071	2 x 18	2 x 1111	2 x 20,1	T 50 B
400/200	45072	2 x 24	2 x 833	2 x 26,8	T 50 B
U I 48 x 26				**60 VA**	
630/315	45073	2 x 6	2 x 5000	2 x 6,6	T 50 B
630/315	45074	2 x 9	2 x 3333	2 x 9,9	T 50 B
630/315	45075	2 x 12	2 x 2500	2 x 13,1	T 50 B
630/315	45076	2 x 15	2 x 2000	2 x 16,4	T 50 B
630/315	45077	2 x 18	2 x 1667	2 x 19,7	T 50 B
630/315	45078	2 x 24	2 x 1250	2 x 26,3	T 50 B

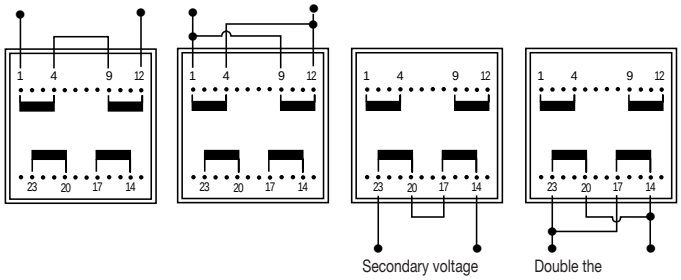


CIRCUIT	RATING	A	B	C	WEIGHT
UI 48 x 17	40 VA	38,5	13,5	83	760 g
UI 48 x 26	60 VA	48,5	14,5	86	1060 g

Possible primary connections

230 V 115 V

Possible secondary connections



QUALITY IN SERIES

*design on request at myrra.com

SIDE-MOUNTING TRANSFORMERS

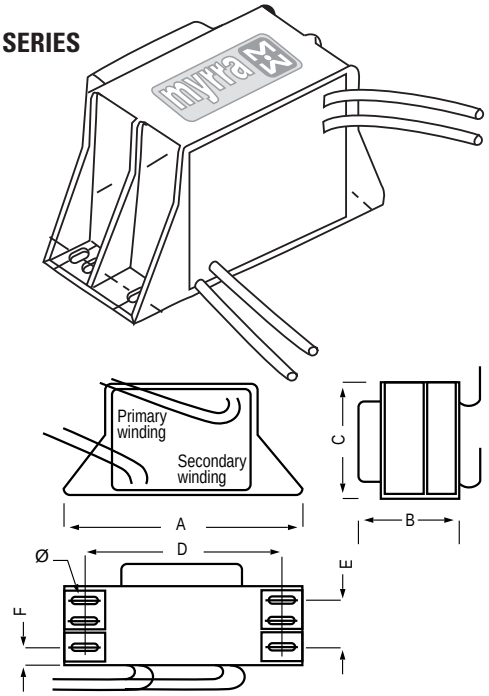
- **FLF / FLC SERIES**
- Primary voltage : 230 V 50/60 Hz
- Secondary voltage : 12 V ou 24 V
- Maximum ambient temperature : + 40 °C
- Insulation class : B
- Insulation voltage : 4 kV
- Standards applicable : VDE 0570 - EN 61558 - UL 5085
- Degree of protection IP 00
- Prepared for protection class II
- Options : 00 Standard
  01 Addition of a thermal fuse (non-resettable)
  02 Addition of a resettable thermal protection system
- On request : all primary and secondary voltages up to 500 V (consult us for details)

- **FLF SERIES** : connection by UL-approved flexible cables (600 V/105°C)
  AWG 18 up to 6 A
  AWG 16 up to 10 A
  AWG 14 up to 20 A
  } standard length : 250 mm

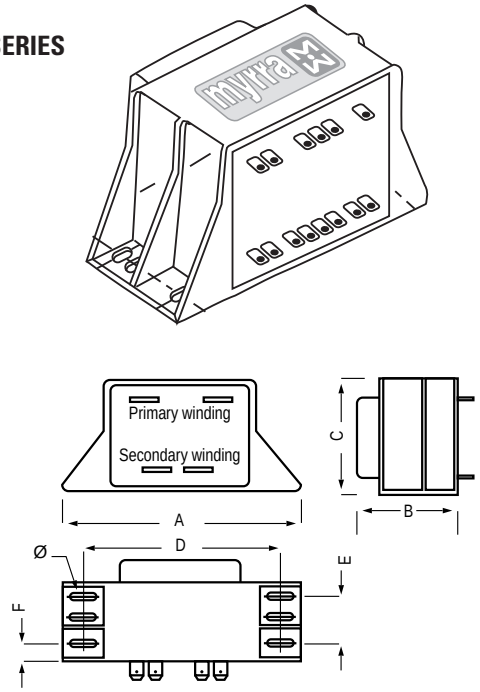
- **FLC SERIES** : connection by «faston» connectors

Rating	primary	secondary
3,2 VA-5 VA	2,8 x 0,8	4,8 x 0,8
10 VA-22 VA	4,8 x 0,8	4,8 x 0,8
30 VA-240 VA	6,3 x 0,8	6,3 x 0,8

FLF SERIES



FLC SERIES

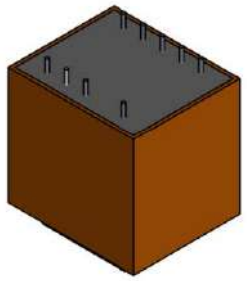


Rating in VA	References FLF 12 V	References FLF 24 V	References FLC 12 V	References FLC 24 V	Drop %	Vs-c %	Effic. %	Fuse	Format	A	B	C	D	E	F	Ø
3,2	30081	30094	30107	30120	30	28	61	32 mA	EI 38 x 13,6	61	33	35	51	-	19,5	3,5
5	30082	30095	30108	30121	32	30	62	32 mA	EI 42 x 14,8	65	33	38	55	-	17,8	3,5
10	30083	30096	30109	30122	25	25	69	63 mA	EI 48 x 16,8	75	39	43	62	12	9	3,5
16	30084	30097	30110	30123	24	23	71,5	80 mA	EI 54 x 18,4	82,5	43	48,5	68	11	11	3,5
22	30085	30098	30111	30124	19	19	76,5	125 mA	EI 60 x 21	88	48	53,5	75	13,5	12,2	4,8
30	30086	30099	30112	30125	16	16	79,5	160 mA	EI 66 x 23	94	49,5	58,5	82	13	13,3	4,8
45	30087	30100	30113	30126	11	11	83	250 mA	EI 66 x 34,7	94	61	58,5	82	37,5	7,4	4,8
63	30088	30101	30114	30127	12	13	83,5	315 mA	EI 78 x 27,5	112,5	59	71,5	97,5	32,5	7,6	5,2
100	30089	30102	30115	30128	13,5	15	84,5	500 mA	EI 84 x 29,5	120	64	75	102,5	32,5	10,2	5,5
160*	30090	30103	30116	30129	12	13,5	86	800 mA	EI 84 x 43,5	120	78	75	102,5	45	10,8	5,5
160	30091	30104	30117	30130	9,5	12	88,5	800 mA	EI 96 x 35,7	133	75	85	115	40	10,6	5,5
185	30092	30105	30118	30131	7,8	9,8	90	1,0 A	EI 96 x 45,7	133	85	85	115	50	10,6	5,2
240	30093	30106	30119	30132	6,4	8	91	1,25 A	EI 96 x 59,7	133	98,5	85	115	64	10,2	5,5

* Transformer not complying with the standard (for this, it must be equiped with a thermal fuse system)

NEW

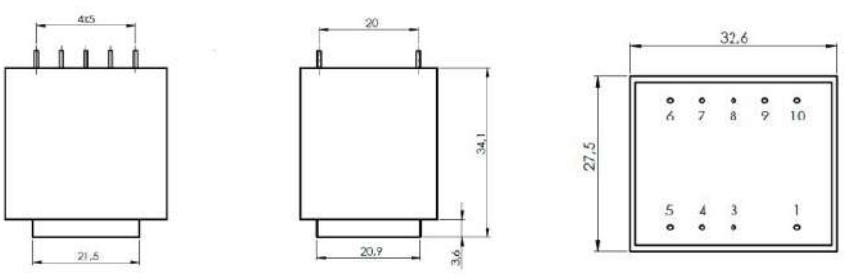
- Exclusively uses UL94-V0 listed materials
- Construction conforms to the certified MYRRA Class B UL Electrical Insulation System E113497-B

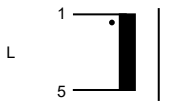


MYRRA Part N°	Inductance (mH)	Rated Current (Arms)	Sat. Current (Apk)	Temperature Class	Type
43110	1.0	5.2	10.4	T70 / B	2
43111	1.5	4.2	5.9	T70 / B	2
43112	2.0	3.6	5.1	T70 / B	2
43113	2.5	3.5	4.9	T70 / B	1
43114	3.0	3.2	4.5	T70 / B	1
43115	3.5	3.0	4.2	T70 / B	1
43116	4.0	2.9	4.1	T70 / B	1
43117	4.5	2.5	3.9	T70 / B	1
43118	5.0	2.3	3.8	T70 / B	1
43119	10.0	1.9	2.7	T70 / B	2
43120	15.0	1.5	2.2	T70 / B	1
43121	20.0	1.3	2.1	T70 / B	1

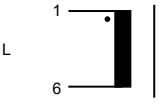
Rated currents (A_{RMS}) will give temperature rising of 40 K.

Saturation currents (A_{pk}) are stated for a maximum inductance drop of 20%





Type 1



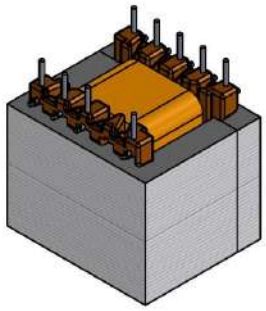
Type 2

Pin 2 Removed
PCB Drilling Diameter = 1.3mm

*design on request at myrra.com

NEW

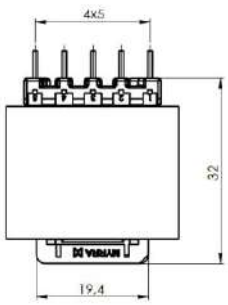
•Exclusively uses UL94-V0 listed materials
•Construction conforms to the certified MYRRA Class F UL Electrical Insulation System E113497-F5

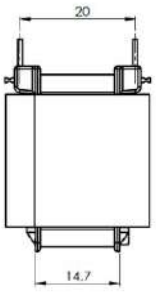


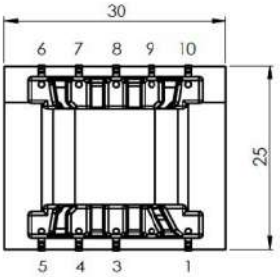
MYRRA Part N°	Inductance (mH)	Rated Current (Arms)	Sat. Current (Apk)	Temperature Class	Type
43150	1.0	5.2	10.4	T70 / F	2
43151	1.5	3.6	5.9	T70 / F	2
43152	2.0	3.5	5.1	T70 / F	2
43153	2.5	3.2	4.9	T70 / F	1
43154	3.0	3.0	4.5	T70 / F	1
43155	3.5	2.9	4.2	T70 / F	1
43156	4.0	2.5	4.1	T70 / F	1
43157	4.5	2.3	3.9	T70 / F	1
43158	5.0	2.2	3.8	T70 / F	1
43159	10.0	1.9	2.7	T70 / F	2
43160	15.0	1.5	2.2	T70 / F	1
43161	20.0	1.3	2.1	T70 / F	1

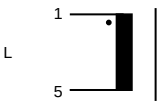
Rated currents (A_{RMS}) will give temperature rising of 60 K.

Saturation currents (A_{pk}) are stated for a maximum inductance drop of 20%

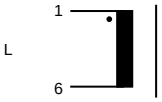








Type 1

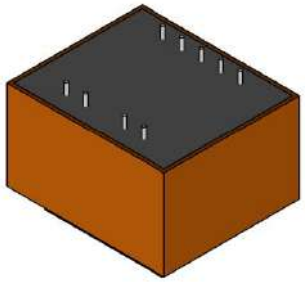


Type 2

Pin 2 Removed
PCB Drilling Diameter = 1.3mm

NEW

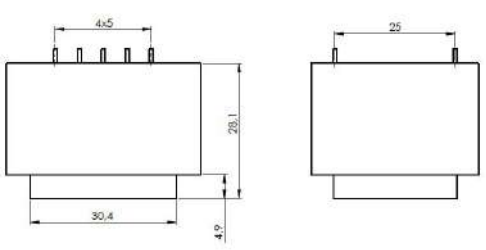
- Exclusively uses UL94-V0 listed materials
- Construction conforms to the certified MYRRA Class B UL Electrical Insulation System E113497-B

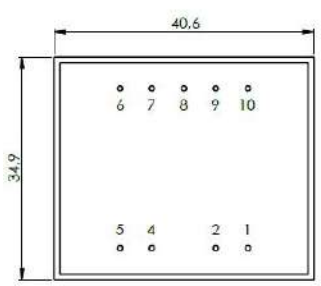


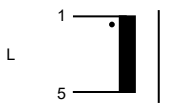
MYRRA Part N°	Inductance (mH)	Rated Current (Arms)	Sat. Current (Apk)	Temperature Class	Type
43210	1.0	4.7	10.5	T70 / B	2
43211	1.5	4.6	7.7	T70 / B	1
43212	2.0	4.2	6.4	T70 / B	1
43213	2.5	3.8	6.2	T70 / B	2
43214	3.0	3.4	5.2	T70 / B	2
43215	3.5	3.3	5.1	T70 / B	1
43216	4.0	3.2	5.0	T70 / B	2
43217	4.5	2.9	4.6	T70 / B	2
43218	5.0	2.7	4.0	T70 / B	2
43219	10.0	1.9	2.8	T70 / B	1
43220	15.0	1.5	2.5	T70 / B	2

Rated currents (A_{RMS}) will give temperature rising of 40 K.

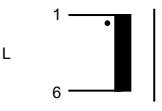
Saturation currents (A_{pk}) are stated for a maximum inductance drop of 20%







Type 1



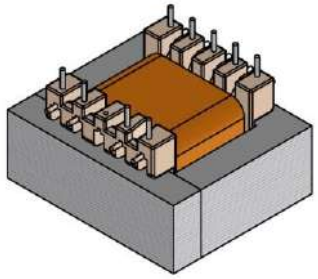
Type 2

Pin 3 Removed
PCB Drilling Diameter = 1.3mm

*design on request at myrra.com

NEW

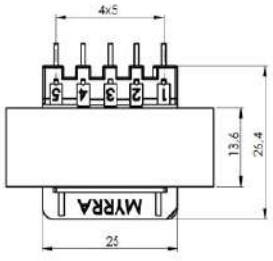
- Exclusively uses UL94-V0 listed materials
- Construction conforms to the certified MYRRA Class F UL Electrical Insulation System E113497-F5

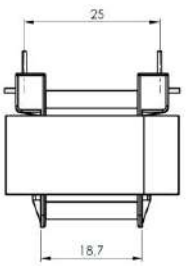


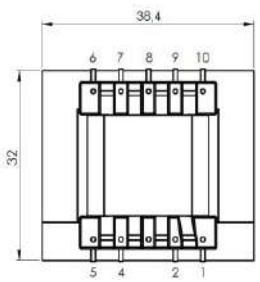
MYRRA Part N°	Inductance (mH)	Rated Current (Arms)	Sat. Current (Apk)	Temperature Class	Type
43250	1.0	4.8	10.5	T70 / F	2
43251	1.5	4.7	7.7	T70 / F	1
43252	2.0	4.6	6.4	T70 / F	1
43253	2.5	4.5	6.2	T70 / F	2
43254	3.0	3.6	5.2	T70 / F	2
43255	3.5	3.5	5.1	T70 / F	1
43256	4.0	3.2	5.0	T70 / F	2
43257	4.5	3.1	4.6	T70 / F	2
43258	5.0	2.9	4.0	T70 / F	2
43259	10.0	2.0	2.8	T70 / F	1
43260	15.0	1.5	2.5	T70 / F	2

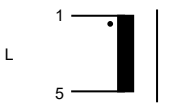
Rated currents (A_{RMS}) will give temperature rising of 60 K.

Saturation currents (A_{pk}) are stated for a maximum inductance drop of 20%

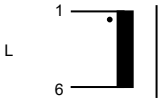








Type 1

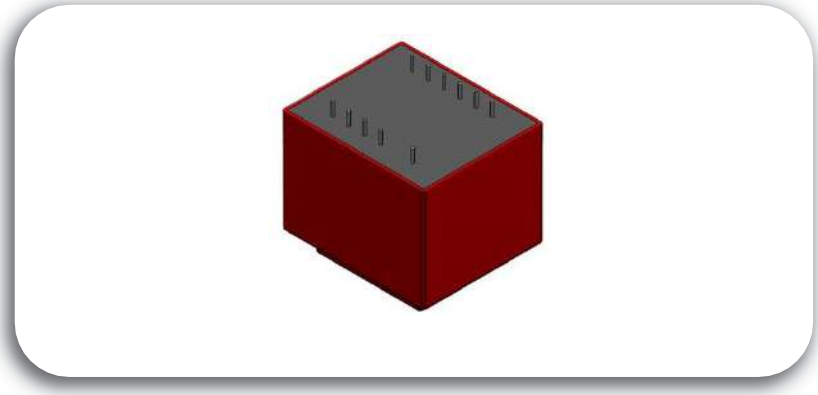


Type 2

Pin 3 Removed
PCB Drilling Diameter = 1.3mm

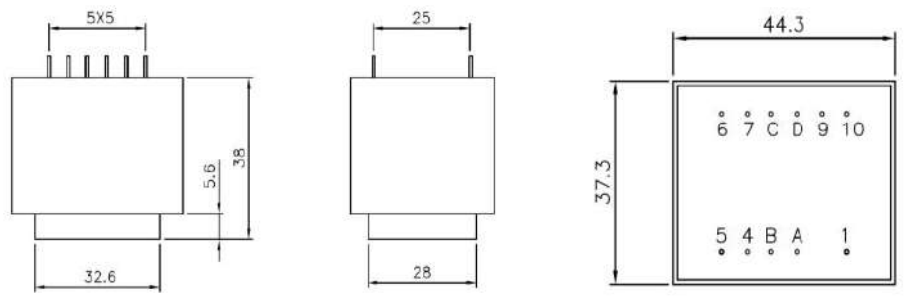
NEW

•Exclusively uses UL94-V0 listed materials
•Construction conforms to the certified MYRRA Class B UL Electrical Insulation System E113497-B

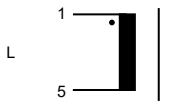


MYRRA Part N°	Inductance (mH)	Rated Current (Arms)	Sat. Current (Apk)	Temperature Class	Type
43310	1.0	5.9	14.0	T70 / B	1
43311	1.5	5.8	13.3	T70 / B	1
43312	2.0	5.2	11.4	T70 / B	1
43313	2.5	4.5	9.4	T70 / B	1
43314	3.0	4.4	8.8	T70 / B	2
43315	3.5	4.4	8.4	T70 / B	2
43316	4.0	4.4	7.8	T60 / B	2
43317	4.5	4.0	7.2	T60 / B	2
43318	5.0	3.9	7.0	T60 / B	2
43319	10.0	2.9	5.2	T60 / B	1
43320	15.0	2.4	4.3	T50 / B	2
43321	20.0	2.0	3.5	T50 / B	2

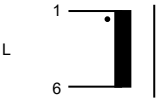
Rated currents (A_{RMS}) will give temperature rising of 40 K for T70, 50 K for T60 and 60 K for T50.
Saturation currents (A_{pk}) are stated for a maximum inductance drop of 20%



Pin 2 Removed
PCB Drilling Diameter = 1.3mm



Type 1

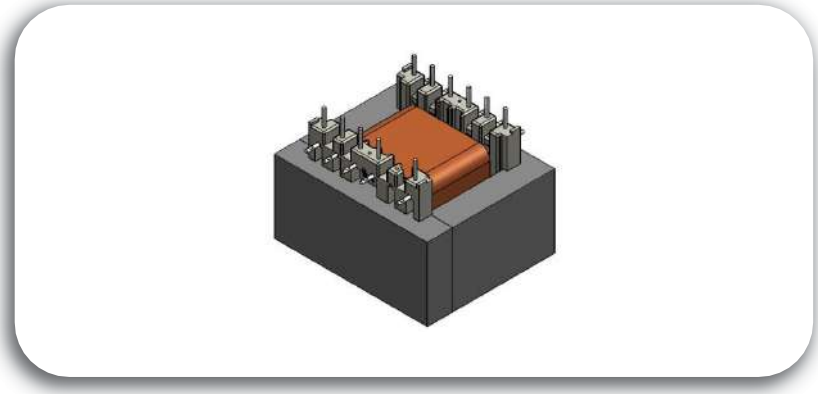


Type 2

*design on request at myrra.com

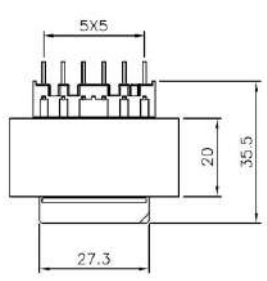
NEW

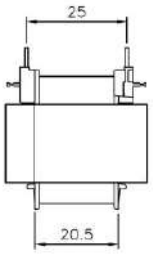
•Exclusively uses UL94-V0 listed materials
•Construction conforms to the certified MYRRA Class F UL Electrical Insulation System E113497-F5

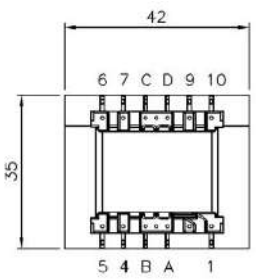


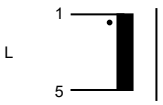
MYRRA Part N°	Inductance (mH)	Rated Current (Arms)	Sat. Current (Apk)	Temperature Class	Type
43350	1.0	5.9	14.0	T70 / F	1
43351	1.5	5.8	13.3	T70 / F	1
43352	2.0	5.2	11.4	T70 / F	1
43353	2.5	4.5	9.4	T70 / F	1
43354	3.0	4.4	8.8	T60 / F	2
43355	3.5	4.4	8.4	T50 / F	2
43356	4.0	4.4	7.8	T50 / F	2
43357	4.5	4.0	7.2	T50 / F	2
43358	5.0	3.9	7.0	T50 / F	2
43359	10.0	2.9	5.2	T50 / F	1
43360	15.0	2.4	4.3	T50 / F	2
43361	20.0	2.0	3.5	T50 / F	2

Rated currents (A_{RMS}) will give temperature rising of 60 K for T70, 70 K for T60 and 80 K for T50.
Saturation currents (A_{pk}) are stated for a maximum inductance drop of 20%

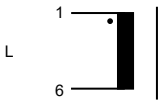








Type 1

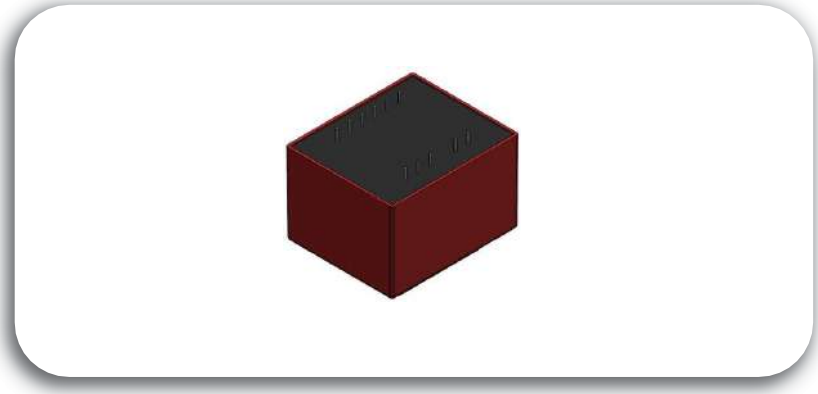


Type 2

Pin 2 Removed
PCB Drilling Diameter = 1.3mm

NEW

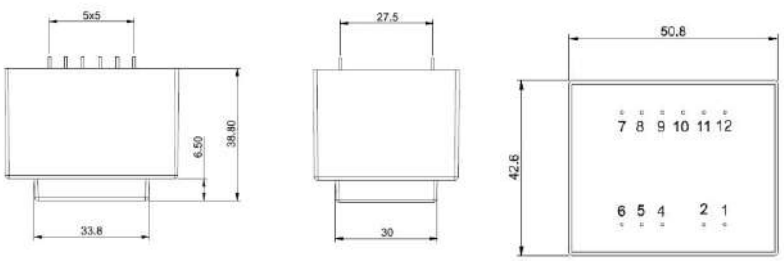
- Exclusively uses UL94-V0 listed materials
- Construction conforms to the certified MYRRA Class B UL Electrical Insulation System E113497-B
- Compliant with IEC61558-2-20

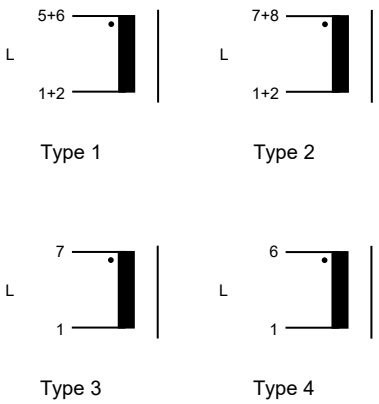


MYRRA Part N°	Inductance (mH)	Rated Current (Arms)	Sat. Current (Apk)	Temperature Class	Type
43410	1.0	8.7	16.2	T70 / B	1
43411	1.5	7.8	12.6	T70 / B	2
43412	2.0	6.8	10.6	T70 / B	3
43413	2.5	5.6	9.6	T70 / B	4
43414	3.0	5.5	8.1	T70 / B	4
43415	3.5	4.7	7.8	T70 / B	4
43416	4.0	4.4	7.1	T70 / B	4
43417	4.5	4.3	6.8	T70 / B	4
43418	5.0	4.2	6.2	T70 / B	4
43419	10.0	3.0	5.5	T70 / B	3
43420	15.0	2.5	4.1	T70 / B	4
43421	20.0	2.2	2.9	T70 / B	4

Rated currents (A_{RMS}) will give temperature rising of 40 K.

Saturation currents (A_{pk}) are stated for a maximum inductance drop of 20%



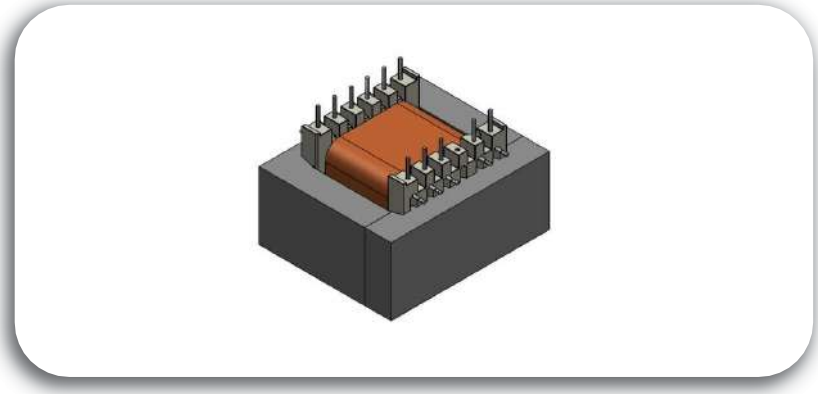


Pin 3 Removed
PCB Drilling Diameter = 1.3mm

*design on request at myrra.com

NEW

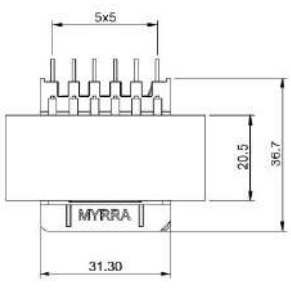
- Exclusively uses UL94-V0 listed materials
- Construction conforms to the certified MYRRA Class F UL Electrical Insulation System E113497-F5
- Compliant with IEC61558-2-20

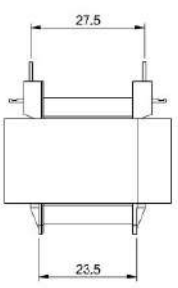


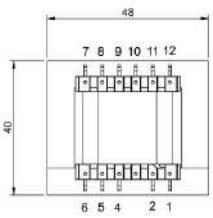
MYRRA Part N°	Inductance (mH)	Rated Current (Arms)	Sat. Current (Apk)	Temperature Class	Type
43450	1.0	7.9	16.2	T70 / F	1
43451	1.5	7.3	12.6	T70 / F	2
43452	2.0	6.0	10.6	T70 / F	3
43453	2.5	5.0	9.6	T70 / F	4
43454	3.0	5.0	8.1	T70 / F	4
43455	3.5	4.2	7.8	T70 / F	4
43456	4.0	3.9	7.1	T70 / F	4
43457	4.5	3.9	6.8	T70 / F	4
43458	5.0	3.9	6.2	T70 / F	4
43459	10.0	2.7	6.2	T70 / F	3
43460	15.0	2.3	4.1	T70 / F	4
43461	20.0	2.0	2.9	T70 / F	4

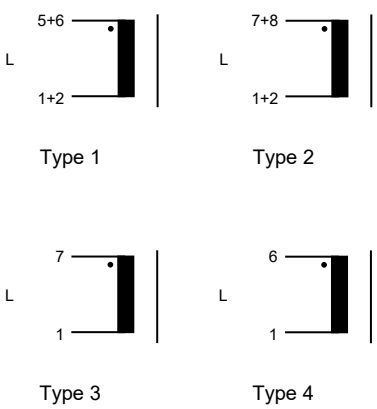
Rated currents (A_{RMS}) will give temperature rising of 60 K.

Saturation currents (A_{pk}) are stated for a maximum inductance drop of 20%





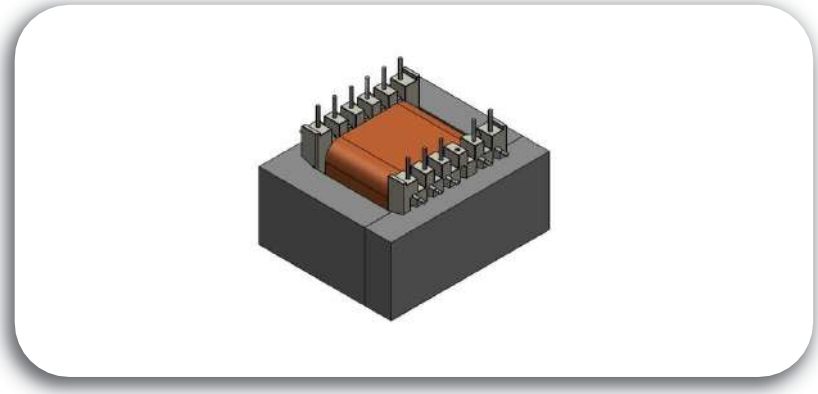




Pin 3 Removed
PCB Drilling Diameter = 1.3mm

NEW

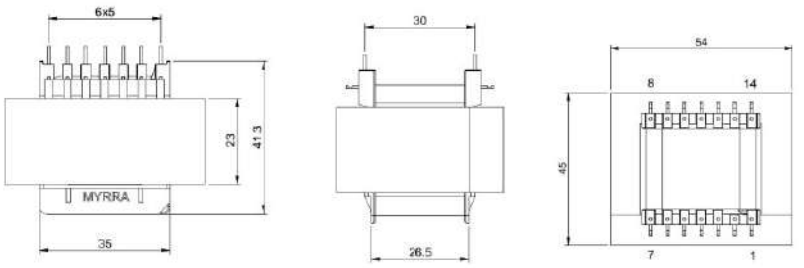
- Exclusively uses UL94-V0 listed materials
- Construction conforms to the certified MYRRA Class F UL Electrical Insulation System E113497-F5
- Compliant with IEC61558-2-20

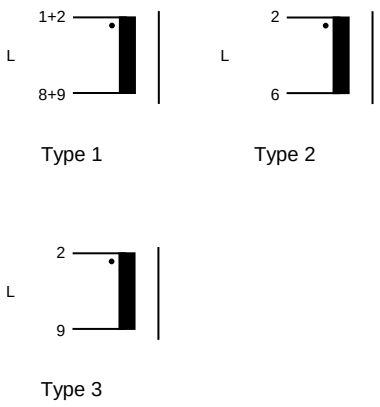


MYRRA Part N°	Inductance (mH)	Rated Current (Arms)	Sat. Current (Apk)	Temperature Class	Type
43550	1.0	7.7	21.5	T70 / F	1
43551	1.5	6.3	17.0	T70 / F	1
43552	2.0	5.5	14.3	T70 / F	2
43553	2.5	5.4	13.5	T70 / F	2
43554	3.0	5.1	12.4	T70 / F	2
43555	3.5	4.5	10.8	T70 / F	2
43556	4.0	4.1	9.6	T70 / F	2
43557	4.5	3.9	9.2	T70 / F	3
43558	5.0	3.9	9.0	T70 / F	3
43559	10.0	3.0	6.9	T70 / F	2
43560	15.0	2.5	5.7	T70 / F	2
43561	20.0	2.0	4.6	T70 / F	3

Rated currents (A_{RMS}) will give temperature rising of 60 K.

Saturation currents (A_{pk}) are stated for a maximum inductance drop of 20%





PCB Drilling Diameter = 1.3mm

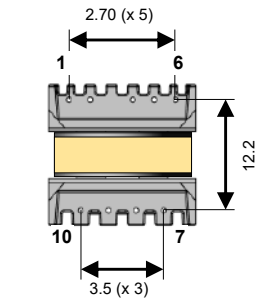
*design on request at myrra.com

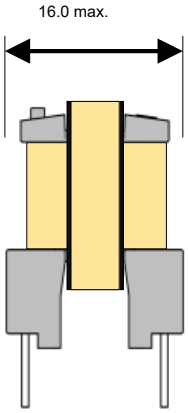
MYRRA Part N°	CORE SIZE	Max. Output Power	Outputs				
		Watts	Vdc nominal voltage				
74200	E16	5w	5v	12v			
74201	E16	6w	5v				
74202	E16	6w	12v				
74203	E16	6w	3.3v	5v			
74210	E16	12w	5v	12v			
74214	E16	12w	24v	24v			
74215	E16	12w	5v	15v	24v		
74020	EL19	18w	5v	12v			
74021	EL19	18w	5v	12v			
74023	EL19	16w	3.3v	5v	12v	18v	30v
74030	E25	30w	5v	12v	12v		
74032	E25	35w	24v				
74040	ETD29	60w	5v	12v	5v	12v	
74043	ERL28	60w	3.3v	5v	12v	18v	30v
74050	ETD34	90w	5v	12v	5v	12v	
74060	ETD39	140w	5v	12v	5v	12v	
74070	ETD44	180w	5v	12v	5v	12v	
74087	EF20	24w	12v	12v			
74088	EF20	20w	3.3v	5v	12v		
74089	EF20	20w	5v	5v			
74290	E16	1.5w	5v				
74291	E16	1.5w	12v				
74292	E16	3.1w	5v				
74293	E16	3.1w	12v				
74294	E16	9w	5v				
74295	E16	9w	12v				

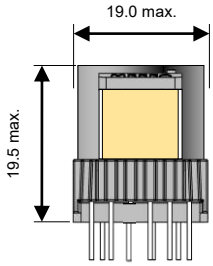
Note : "5 volts" outputs can generally be used for 3.3 to 6volts; "12 volts" outputs can be used for 9 to 16volts.
See detailed characteristics.

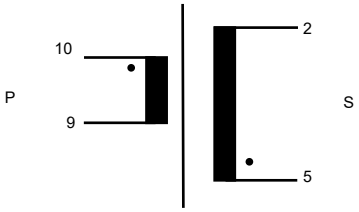
NEW

- Primary / Secondary Insulation ≥ 4000V
- PD2 - creepage distances ≥ 6mm
- Ambient Temperature < 85°C
- Construction conforms to the certified MYRRA class B UL Electrical Insulation System E113497-B1
- Construction conforms to IEC60335-1, IEC60950-1, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials









Pin 3 Removed
PCB Drilling Diameter = 1.1mm

MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74290	1.5 w	Pri	10 – 9	228	85 - 265Vrms	0.28 Apeak	6.0 mH
		S1	5 – 2	16	3.3 – 6 Vdc	0.4 Adc	
74291	1.5 w	Pri	10 – 9	228	85 - 265Vrms	0.28 Apeak	6.0 mH
		S1	5 – 2	28	7.5 – 15 Vdc	0.2 Adc	

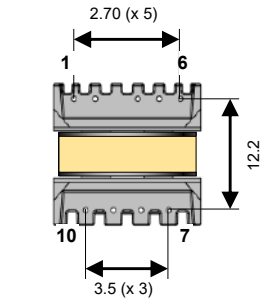
Examples of application with Integrated Circuits :

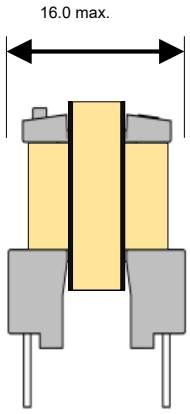
MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74290	Power Integrations	85 - 265Vrms	1.5w	44kHz
74291	Power Integrations	85 - 265Vrms	1.5w	44kHz

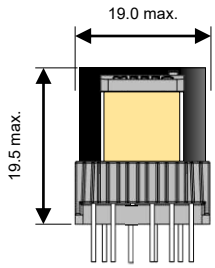
*design on request at myrra.com

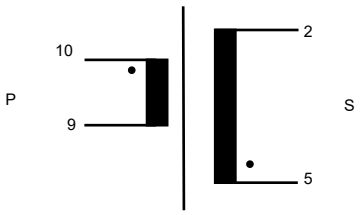
NEW

- Primary / Secondary Insulation ≥ 4000V
- PD2 - creepage distances ≥ 6mm
- Ambient Temperature < 85°C
- Construction conforms to the certified MYRRA class B UL Electrical Insulation System E113497-B1
- Construction conforms to IEC60335-1, IEC60950-1, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials









Pin 3 Removed
PCB Drilling Diameter = 1.1mm

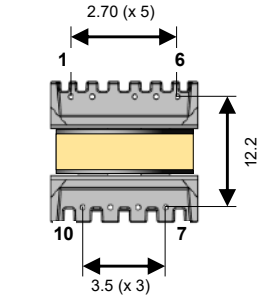
MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74292	3.1 w	Pri	10 – 9	191	85 - 265Vrms	0.34 Apeak	4.2 mH
		S1	5 – 2	13	3.3 – 6 Vdc	0.9 Adc	
74293	3.1 w	Pri	10 – 9	191	85 - 265Vrms	0.34 Apeak	4.2 mH
		S1	5 – 2	24	7.5 – 15 Vdc	0.4 Adc	

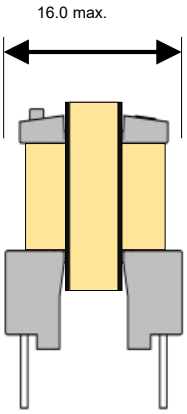
Examples of application with Integrated Circuits :

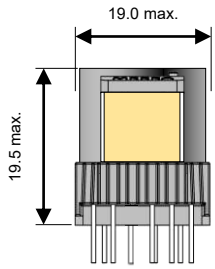
MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74292	Power Integrations	85 - 265Vrms	3.1w	44kHz
74293	Power Integrations	85 - 265Vrms	3.1w	44kHz

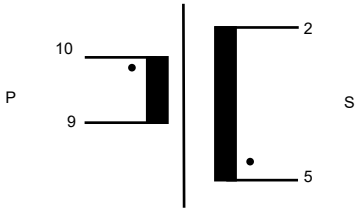
NEW

- Primary / Secondary Insulation ≥ 4000V
- PD2 - creepage distances ≥ 6mm
- Ambient Temperature < 60°C
- Construction conforms to the certified MYRRA class B UL Electrical Insulation System E113497-B1
- Construction conforms to IEC60335-1, IEC60950-1, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials









Pin 3 Removed
PCB Drilling Diameter = 1.1mm

MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74294	9 w	Pri	10 – 9	135	85 - 265Vrms	0.48 Apeak	2.1 mH
		S1	5 – 2	9	3.3 – 6 Vdc	1.5 Adc	
74295	9 w	Pri	10 – 9	135	85 - 265Vrms	0.48 Apeak	2.1 mH
		S1	5 – 2	17	7.5 – 15 Vdc	0.9 Adc	

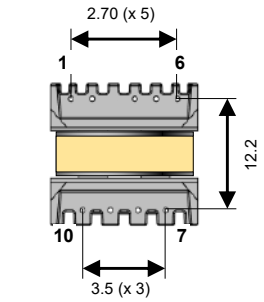
Examples of application with Integrated Circuits :

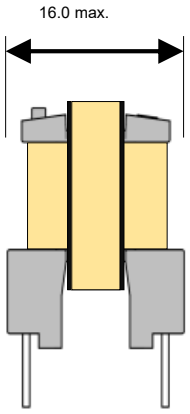
MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74294	Power Integrations	85 - 265Vrms	4.2w	44kHz
	Power Integrations	85 - 265Vrms	5w	132kHz
	Power Integrations	85 - 265Vrms	9w	132kHz
74295	Power Integrations	85 - 265Vrms	5w	44kHz
	Power Integrations	85 - 265Vrms	5w	132kHz
	Power Integrations	85 - 265Vrms	9w	132kHz

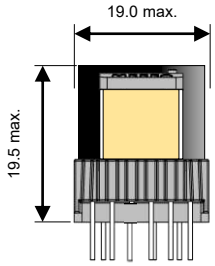
*design on request at myrra.com

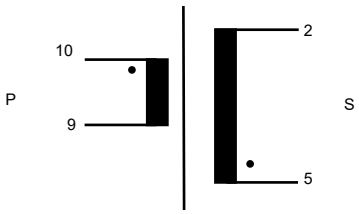
NEW

- Primary / Secondary Insulation ≥ 4000V
- Primary / Auxiliary Insulation ≥ 1500V
- PD2 - creepage distances ≥ 6mm
- Ambient Temperature < 70°C
- Construction conforms to the certified MYRRA class B UL Electrical Insulation System E113497-B1
- Construction conforms to IEC60335-1, IEC60950-1, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials









Pin 3 Removed
PCB Drilling Diameter = 1.1mm

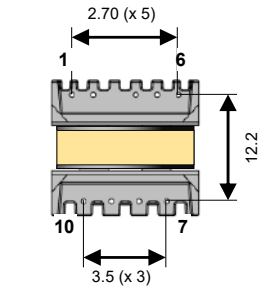
MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74200	5 w	Pri	4 - 6	138	85 - 265Vrms	0.27 Apeak	3.9 mH
		Aux	2 - 1	16	7 – 14 Vdc	0.1 Adc	
		S1	9 - 10	8	3.3 – 7 Vdc	1.2 Adc	
		S2	7 - 8	19	8 – 17 Vdc	0.4 Adc	

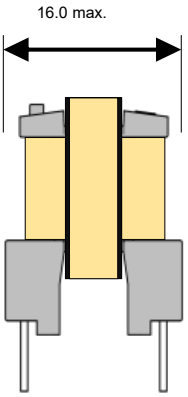
Examples of application with Integrated Circuits :

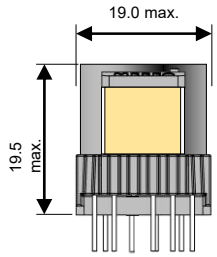
MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74200	Power Integrations	85 - 265Vrms	5w	132kHz
	ST Microelectronics	85 - 265Vrms	4w	70kHz

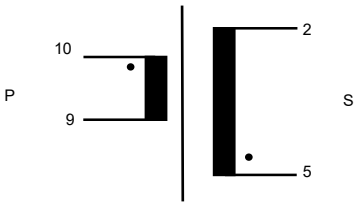
NEW

- Primary / Secondary Insulation ≥ 4000V
- Primary / Auxiliary Insulation ≥ 1500V
- PD2 - creepage distances ≥ 6mm
- Ambient Temperature < 60°C
- Construction conforms to the certified MYRRA class B UL Electrical Insulation System E113497-B1
- Construction conforms to IEC60335-1, IEC60950-1, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials









Pin 3 Removed
PCB Drilling Diameter = 1.1mm

MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74201	6 w	Pri	4 - 6	138	85 - 265Vrms	0.35 Apeak	3.0 mH
		Aux	2 - 1	20	8 – 16 Vdc	0.1 Adc	
		S1	9 - 10	8	3 – 6 Vdc	1.2 Adc	
74202	6 w	Pri	4 - 6	150	85 - 265Vrms	0.38 Apeak	3.0 mH
		Aux	2 - 1	22	8.5 – 17 Vdc	0.1 Adc	
		S1	9 - 10	24	9 – 18 Vdc	0.5 Adc	

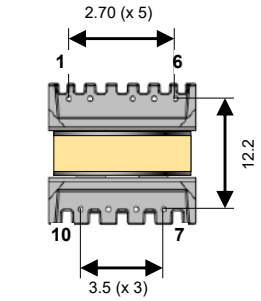
Examples of application with Integrated Circuits :

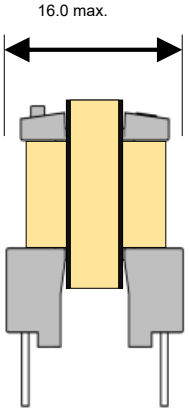
MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74201	Power Integrations	85 - 265Vrms	6w	132kHz
	ST Microelectronics	85 - 265Vrms	6w	70kHz
	ST Microelectronics	85 - 265Vrms	3w	40kHz
	Motorola	85 - 265Vrms	6w	100kHz
	Infineon	185 - 265Vrms	6w	100kHz
74202	Power Integrations	85 - 265Vrms	6w	132kHz
	ST Microelectronics	85 - 265Vrms	6w	70kHz
	ST Microelectronics	85 - 265Vrms	3w	40kHz
	Motorola	85 - 265Vrms	6w	100kHz
	Infineon	185 - 265Vrms	6w	100kHz

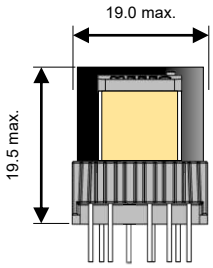
*design on request at myrra.com

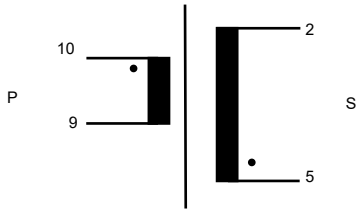
NEW

- Primary / Secondary Insulation ≥ 4000V
- Primary / Auxiliary Insulation ≥ 1500V
- PD2 - creepage distances ≥ 6mm
- Ambient Temperature < 70°C
- Construction conforms to the certified MYRRA class B UL Electrical Insulation System E113497-B1
- Construction conforms to IEC60335-1, IEC60950-1, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials









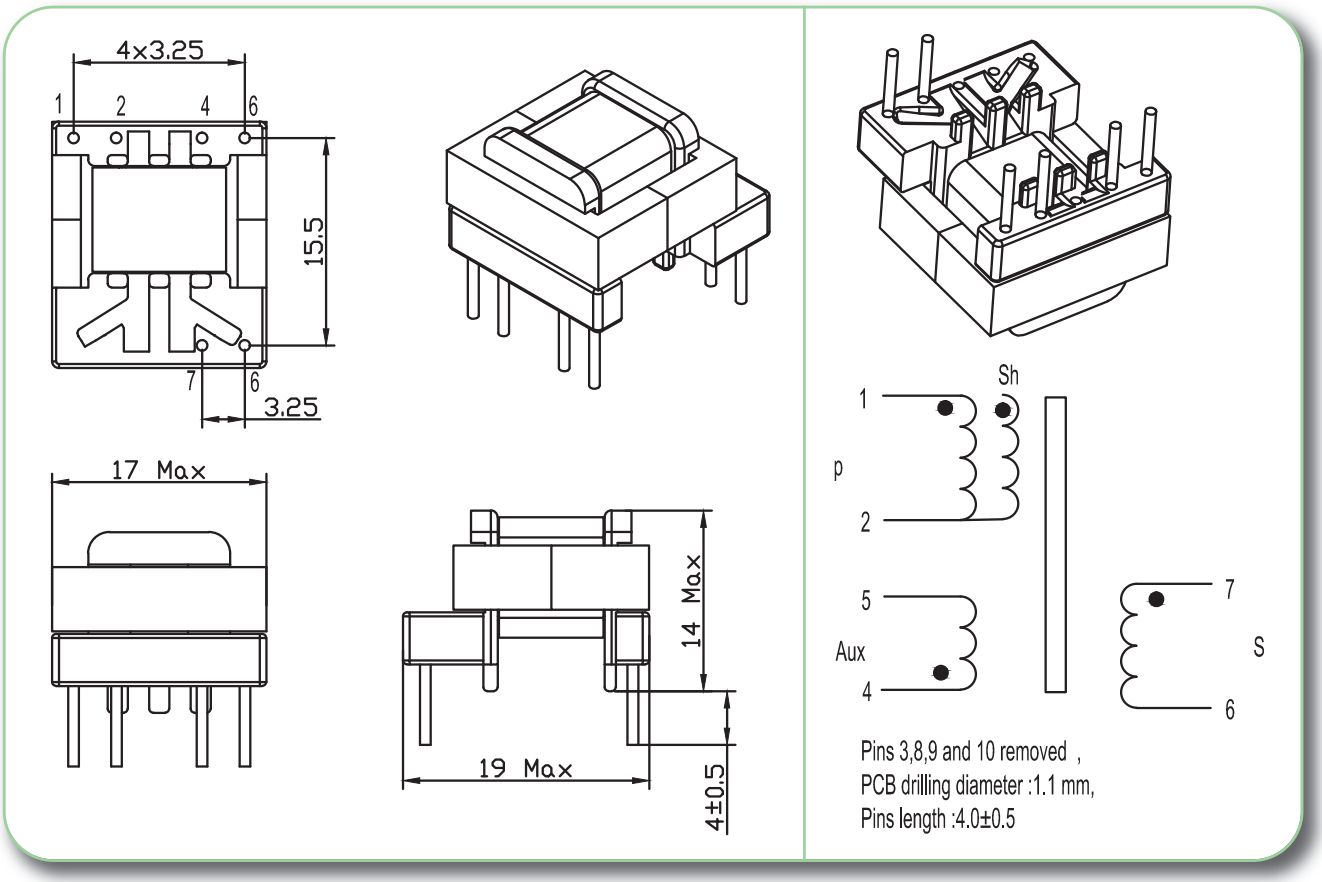
Pin 3 Removed
PCB Drilling Diameter = 1.1mm

MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74203	6 w	Pri	4 - 6	120	85 - 265Vrms	0.3 Apeak	3.0 mH
		Aux	2 - 1	17	8 – 16 Vdc	0.1 Adc	
		S1	9 - 10	5	2 – 4 Vdc	1.8 Adc	
		S2	7 - 10	7	3 – 6 Vdc	1.2 Adc	

Examples of application with Integrated Circuits :

MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74203	Power Integrations	85 - 265Vrms	5w	132kHz
	ST Microelectronics	85 - 265Vrms	6w	70kHz
	ST Microelectronics	85 - 265Vrms	3w	40kHz
	Motorola	85 - 265Vrms	6w	100kHz
	Infineon	185 - 265Vrms	6w	100kHz

- Primary / Secondary Insulation ≥ 4000 V
- Primary / Auxiliary Insulation ≥ 1500 V
- Creepage distance Primary / Secondary ≥ 6mm
- Ambient temperature < 50°C
- Construction conforms to IEC60335-1, IEC60950-1, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94 V-0 listed materials



MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74004	1.7 w	Pri	1 - 2	108	85 - 265Vrms	0.28 Apeak	2700 µH
		Aux	5 - 4	25	22 Vdc	0.1 Adc	
		S	7 - 6	8	6 Vdc	0.5 Adc	
		Shield	NC - 2	8			

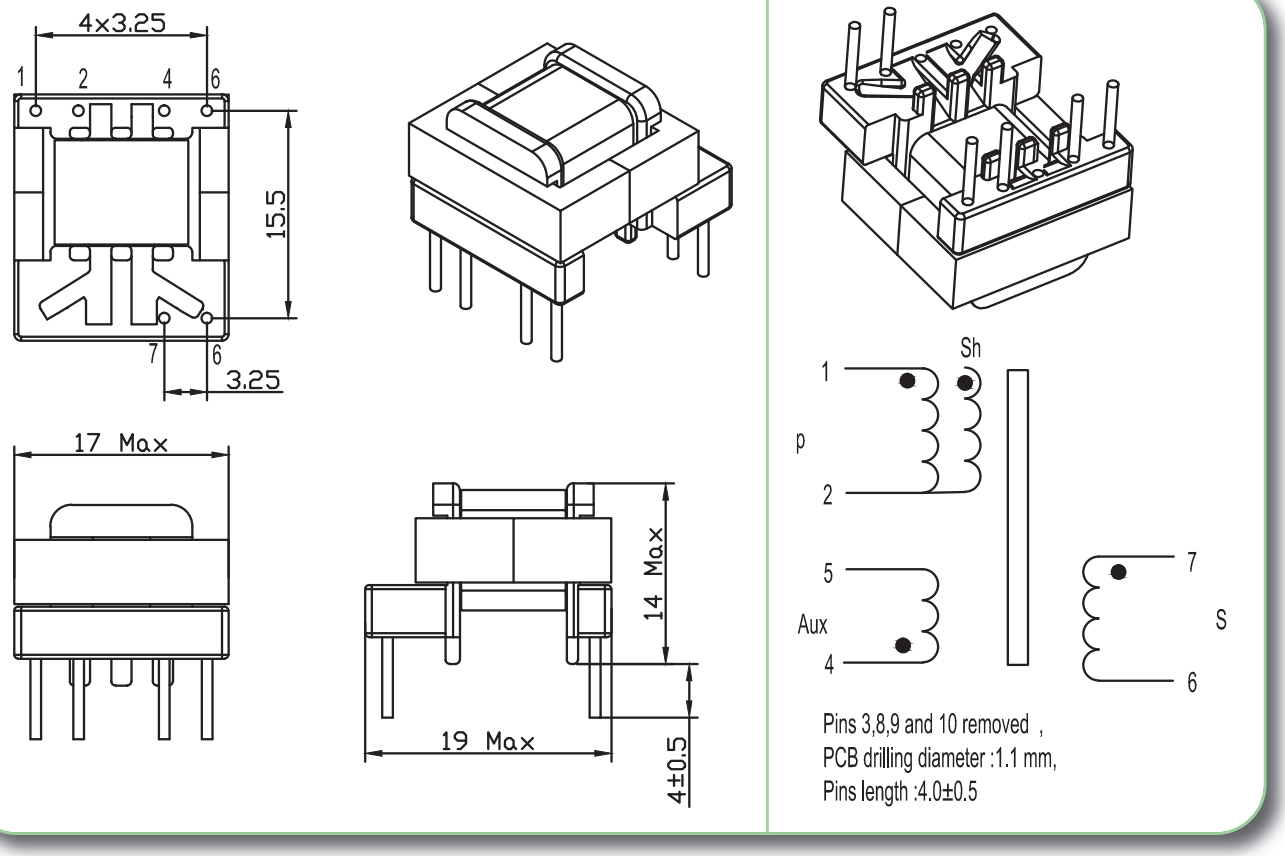
Examples of application with Integrated Circuits :

MYRRA P / N	Control IC Manufacturer	Control IC P / N	Input voltage	Power	Frequency
74004	Power Integrations	LNK562	185 - 265 Vrms	1.3 W	66 kHz
	Power integrations	LNK562	85 - 265 Vrms	1.3 W	66 kHz
	Power Integrations	LNK563	185 - 265 Vrms	1.7 W	83 kHz
	Power Integrations	LNK563	85 - 265 Vrms	1.7 W	83 kHz
	Power Integrations	LNK564	185 - 265 Vrms	2.0 W	100 kHz
	Power Integrations	LNK564	85 - 265 Vrms	2.0 W	100 kHz

Remarks : This transformer perfectly fulfils the specification of Power Integrations AN-39 Appendix - A.

*design on request at myrra.com

- Primary / Secondary Insulation ≥ 4000 V
- Primary / Auxiliary Insulation ≥ 1500 V
- Creepage distance Primary / Secondary ≥ 6mm
- Ambient temperature < 50°C
- Construction conforms to IEC60335-1, IEC60950-1, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94 V-0 listed materials



MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74005	1.7 w	Pri	1 - 2	108	85 - 265Vrms	0.28 Apeak	2700 µH
	Aux	5 - 4	25	22 Vdc	0.1 Adc		
	S	7 - 6	12	10 Vdc	0.2 Adc		
	Shield	NC - 2	8				

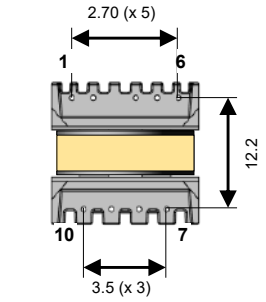
Examples of application with Integrated Circuits :

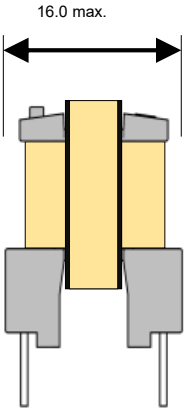
MYRRA P / N	Control IC Manufacturer	Control IC P / N	Input voltage	Power	Frequency
74005	Power Integrations	LNK562	185 - 265 Vrms	1.3 W	66 kHz
	Power integrations	LNK562	85 - 265 Vrms	1.3 W	66 kHz
	Power Integrations	LNK563	185 - 265 Vrms	1.7 W	83 kHz
	Power Integrations	LNK563	85 - 265 Vrms	1.7 W	83 kHz
	Power Integrations	LNK564	185 - 265 Vrms	2.0 W	100 kHz
	Power Integrations	LNK564	85 - 265 Vrms	2.0 W	100 kHz

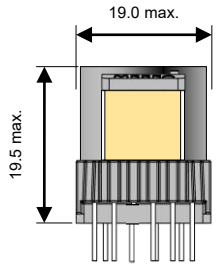
Remarks : This transformer perfectly fulfils the specification of Power Integrations AN-39 Appendix - B.

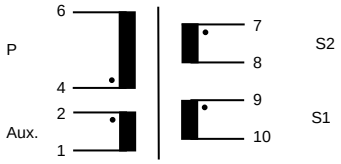
NEW

- Primary / Secondary Insulation ≥ 4000V
- PD2 - creepage distances ≥ 6mm
- Ambient Temperature < 50°C
- Construction conforms to the certified MYRRA class B UL Electrical Insulation System E113497-B1
- Construction conforms to IEC60335-1, IEC60950-1, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials









Pin 3 Removed
PCB Drilling Diameter = 1.1mm

MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74210	12 w	Pri	4 - 6	120	85 - 265Vrms	0.55 Apeak	1.66 mH
		Aux	2 - 1	14	7 – 14 Vdc	0.1 Adc	
		S1	9 - 10	7	3.3 – 7 Vdc	2 Adc	
		S2	7 - 8	17	8 – 17 Vdc	1 Adc	

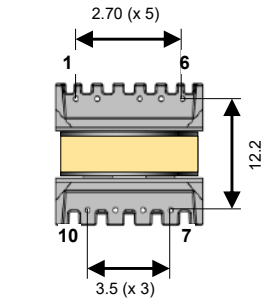
Examples of application with Integrated Circuits :

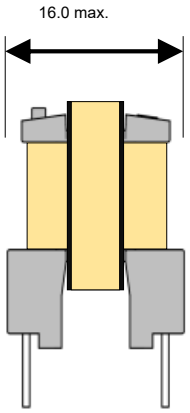
MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74210	Power Integrations	185 - 265Vrms	12w	132kHz
	Power Integrations	85 - 265Vrms	10w	132kHz
	Power Integrations	185 - 265Vrms	12w	132kHz
	Power Integrations	85 - 265Vrms	10w	132kHz
	Power Integrations	185 - 265Vrms	12w	132kHz
	ST Microelectronics	85 - 265Vrms	8w	70kHz
	ST Microelectronics	185 - 265Vrms	10w	70kHz
	Motorola	85 - 265Vrms	8w	100kHz
	Motorola	185 - 265Vrms	10w	100kHz
	Infineon	92 - 265Vrms	7,5w	100kHz
	Infineon	185 - 265Vrms	10w	100kHz
	Fairchild	85 - 265Vrms	7w	50kHz
	Fairchild	185 - 265Vrms	10w	100kHz

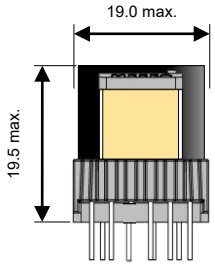
*design on request at myrra.com

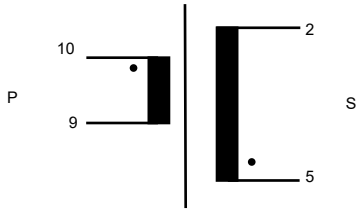
NEW

- Primary / Secondary Insulation ≥ 4000V
- Primary / Auxiliary Insulation ≥ 1500V
- PD2 - creepage distances ≥ 6mm
- Ambient Temperature < 50°C
- Construction conforms to the certified MYRRA class B UL Electrical Insulation System E113497-B1
- Construction conforms to IEC60335-1, IEC60950-1, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials









Pin 3 Removed
PCB Drilling Diameter = 1.1mm

MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74214	12 w	Pri	4 - 6	120	85 - 265Vrms	0.5 Apeak	1.80 mH
		Aux	2 - 1	17	9 – 18 Vdc	0.2 Adc	
		S1	9 - 10	27	15 – 30 Vdc	0.4 Adc	
		S2	7 - 8	27	15 – 30 Vdc	0.4 Adc	

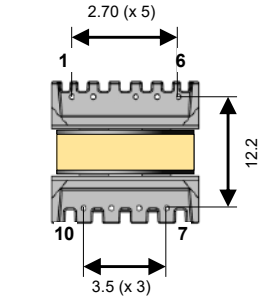
Typical outputs : +24V 0.5A with S1 – S2 in parallel
+48V 0.25A with S1 – S2 in series (8-9 connected)
+15V / -15V 0.4A with pins 8-9 connected to 0V

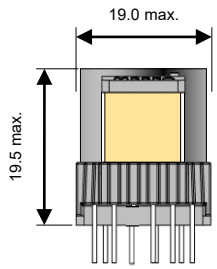
Examples of application with Integrated Circuits :

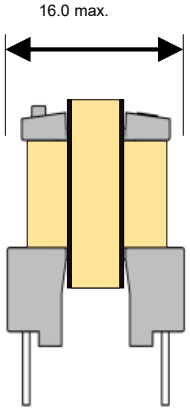
MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74214	Power Integrations	185 - 265Vrms	12w	
	Power Integrations	85 - 265Vrms	8w	
	Power Integrations	185 - 265Vrms	12w	132kHz
	Power Integrations	85 - 265Vrms	8w	132kHz

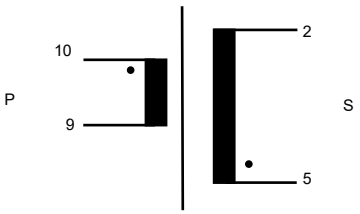
NEW

- Primary / Secondary Insulation ≥ 4000V
- Primary / Auxiliary Insulation ≥ 1500V
- PD2 - creepage distances ≥ 6mm
- Ambient Temperature < 60°C
- Construction conforms to the certified MYRRA class B UL Electrical Insulation System E113497-B1
- Construction conforms to IEC60335-1, IEC60950-1, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials









Pin 3 Removed
PCB Drilling Diameter = 1.1mm

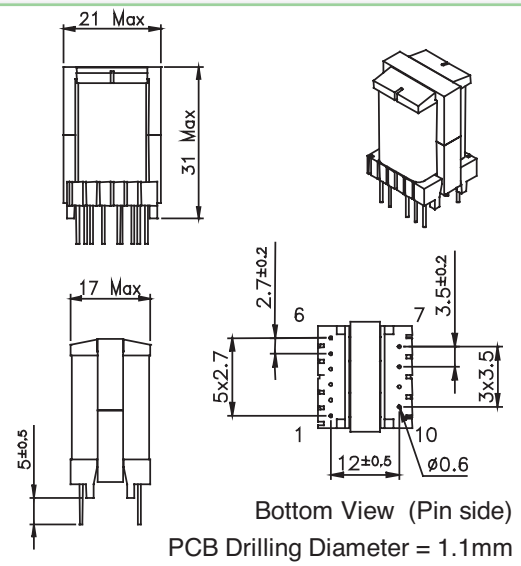
MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74215	12 w	Pri	4 - 6	120	85 - 265Vrms	0.5 Apeak	1.80 mH
		Aux	2 - 1	14	12 Vdc	0.2 Adc	
		S1	9 - 10	6	5 Vdc	1.5 Adc	
		S2	8 - 10	17	15 Vdc	0.6 Adc	
		S3	7 - 10	27	24 Vdc	0.4 Adc	

Examples of application with Integrated Circuits :

MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74215	Power Integrations	185 - 265Vrms	10w	
	Power Integrations	85 - 265Vrms	8w	
	Power Integrations	185 - 265Vrms	12w	132kHz
	Power Integrations	85 - 265Vrms	9w	132kHz

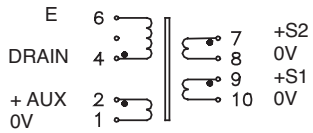
*design on request at myrra.com

- Primary / Secondary Insulation ≥ 4000V
- Primary / Auxiliary Insulation ≥ 1500V
- Creepage distance Primary / Secondary ≥ 6mm
- Ambient temperature < 50°C
- Construction conforms to IEC60335-1, IEC60950-1, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



Bottom View (Pin side)

PCB Drilling Diameter = 1.1mm



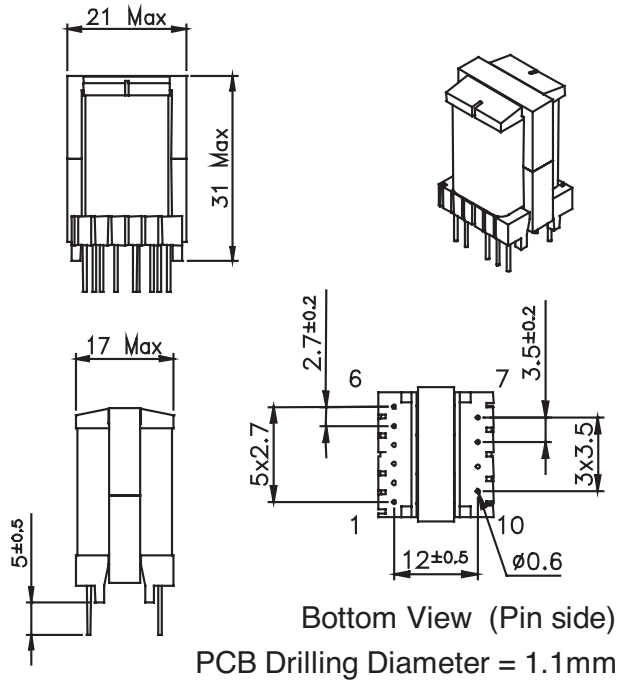
74020 / 74021

MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74020	18 w	Pri	4 - 6	108	85 - 265Vrms	0.8 Apeak	1250µH
		Aux	2 - 1	12	7 – 14 Vdc	0.1 Adc	
		S1	9 - 10	6	3.3 – 7 Vdc	3 Adc	
		S2	7 - 8	14	8 – 16.5 Vdc	1.4 Adc	
74021	18 w	Pri	4 - 6	108	85 - 265Vrms	1.1 Apeak	900µH
		Aux	2 - 1	12	7 – 14 Vdc	0.1 Adc	
		S1	9 - 10	6	3.3 – 7 Vdc	3 Adc	
		S2	7 - 8	14	8 – 16.5 Vdc	1.4 Adc	

Examples of application with Integrated Circuits :

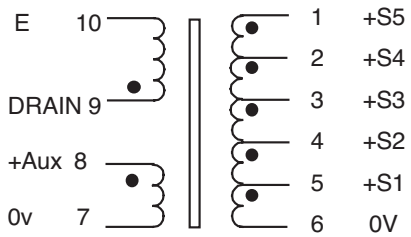
MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74020	Power Integrations	85 - 265Vrms	15w	132kHz
	Power Integrations	185 - 265Vrms	18w	132kHz
	Power Integrations	85 - 265Vrms	12w	132kHz
	ST Microelectronics	85 - 265Vrms	10w	100kHz
	ST Microelectronics	185 - 265Vrms	12w	100kHz
	ST Microelectronics	185 - 265Vrms	16w	100kHz
	Motorola	185 - 265Vrms	16w	100kHz
	Infineon	185 - 265Vrms	16w	100kHz
74021	ST Microelectronics	85 - 265Vrms	13w	70kHz
	Motorola	85 - 265Vrms	13w	100kHz
	Infineon	92 - 265Vrms	10w	100kHz

- Primary / Secondary Insulation ≥ 4000V
- Primary / Auxiliary Insulation ≥ 1500V
- Creepage distance Primary / Secondary ≥ 6mm
- Ambient temperature < 60°C
- Construction conforms to IEC60335-1, IEC60950-1, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



Bottom View (Pin side)

PCB Drilling Diameter = 1.1mm



74023

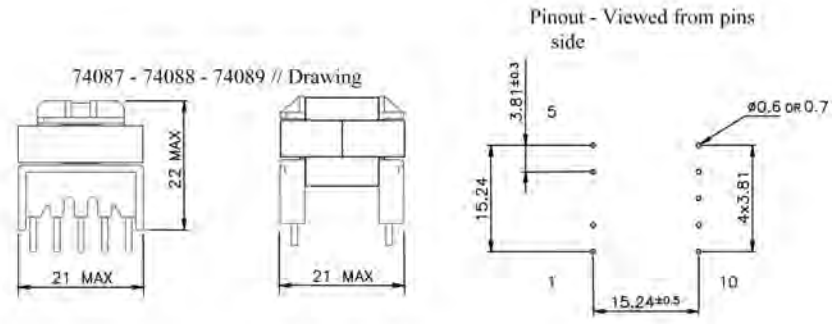
MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74023	16 w	Pri	9 – 10	120	85 - 265Vrms	0.85 Apeak	1250µH
		Aux	8 – 7	17	15 Vdc	0.2 Adc	
		S1	5 – 6	4	3.3 Vdc	S1 + S2 : 7 Adc	
		S2	4 – 6	6	5 Vdc	S1 + S2 : 7 Adc	
		S3	3 – 6	14	12 Vdc	0.8 Adc	
		S4	2 – 6	20	18 Vdc	0.8 Adc	
		S5	1 – 6	33	30 Vdc	0.2 Adc	

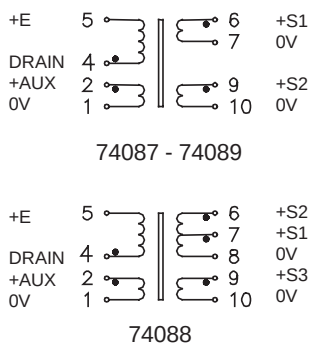
Examples of application with Integrated Circuits :

MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74023	Power Integrations	185 - 265Vrms	16w	132kHz
	Power Integrations	85 - 265Vrms	12w	132kHz

*design on request at myrra.com

- Primary / Secondary Insulation ≥ 4000V • Primary / Auxiliary Insulation ≥ 1500V
- Creepage distance Primary / Secondary ≥ 8mm
- Ambient temperature < 50°C
- Construction conforms to IEC60335-1, IEC60950-1, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials





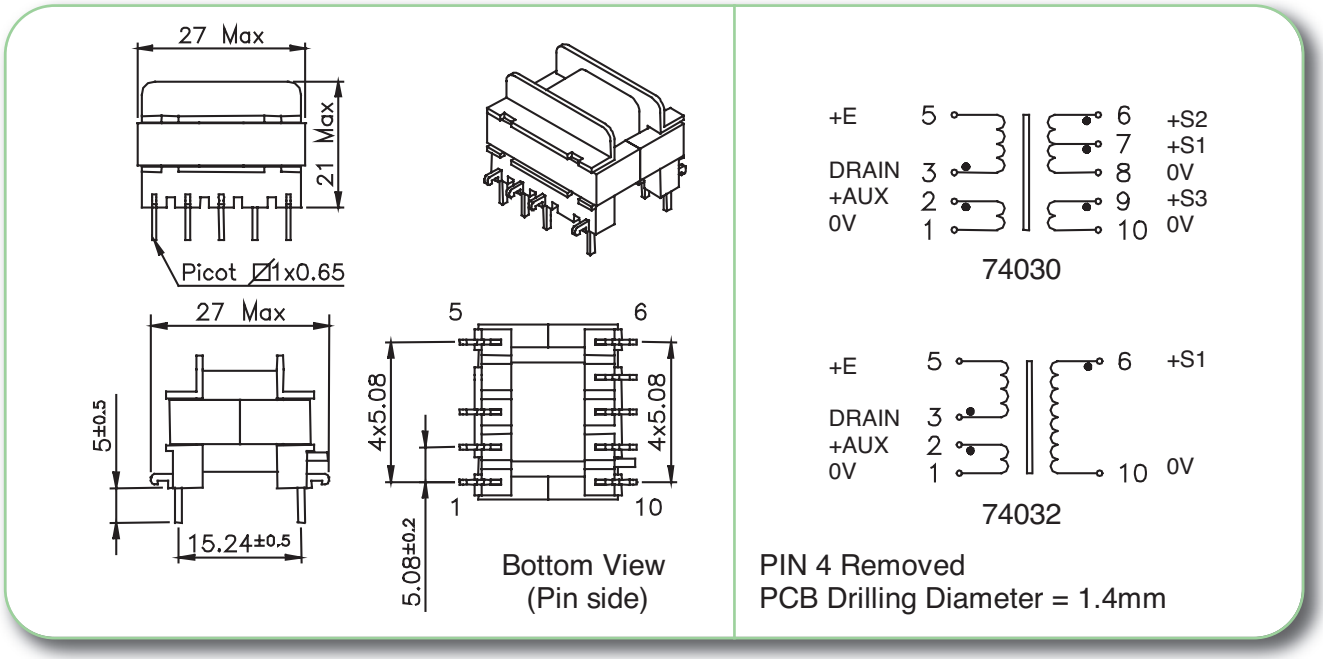
PIN 3 Removed
PCB Drilling Diameter = 1.2mm

MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74087	24 w	Pri	4 – 5	86	85 - 265Vrms	1.0 Apeak	1000µH
		Aux	2 – 1	12	11 - 18 Vdc	0.3 Adc	
		S1	6 – 7	10	9 – 15 Vdc	1.5 Adc	
		S2	9 – 10	10	9 – 15 Vdc	1.5 Adc	
74088	20 w	Pri	4 – 5	80	85 - 265Vrms	0.9 Apeak	1100µH
		Aux	2 – 1	17	15 Vdc	0.3 Adc	
		S1	7 – 8	4	3.3 Vdc	S1 + S2 : 7 Adc	
		S2	6 – 8	6	5 Vdc	S1 + S2 : 7 Adc	
		S3	9 – 10	14	12 Vdc	1.3 Adc	
74089	20 w	Pri	4 – 5	86	85 - 265Vrms	0.85 Apeak	1300µH
		Aux	2 – 1	12	7 - 18 Vdc	0.3 Adc	
		S1	6 – 7	5	3 – 7.5 Vdc	2.0 Adc	
		S2	9 – 10	5	3 – 7.5 Vdc	2.0 Adc	

Examples of application with Integrated Circuits :

MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74087	Power Integrations	185 - 265Vrms	24w	132kHz
	Power Integrations	85 - 265Vrms	15w	132kHz
74088	Power Integrations	185 - 265Vrms	20w	132kHz
	Power Integrations	85 – 265Vrms	12w	132kHz
74089	Power Integrations	185 - 265Vrms	20w	132kHz
	Power Integrations	85 – 265Vrms	14w	132kHz
	Power Integrations	185 - 265Vrms	17w	< 120kHz

- Primary / Secondary Insulation ≥ 4000V
- Primary / Auxiliary Insulation ≥ 1500V
- Creepage distance Primary / Secondary ≥ 6mm
- Ambient temperature < 50°C
- Construction conforms to IEC60335-1, IEC60950-1, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74030	30 w	Pri	3 – 5	70	85 - 265Vrms	1.5 Apeak	750µH
		Aux	2 – 1	8	7 – 14.5 Vdc	1 Adc	
		S1	7 – 8	4	3.3 - 7	3 Adc	
		S2	6 – 8	9	8 – 16 Vdc	1.5 Adc	
		S3	9 – 10	9	8 – 16 Vdc	1.5 Adc	
74032	35 w	Pri	3 – 5	72	85 - 265Vrms	1.1 Apeak	1100µH
		Aux	2 – 1	10	8 - 16 Vdc	1 Adc	
		S1	6 – 10	18	15 - 30 Vdc	1.4 Adc	

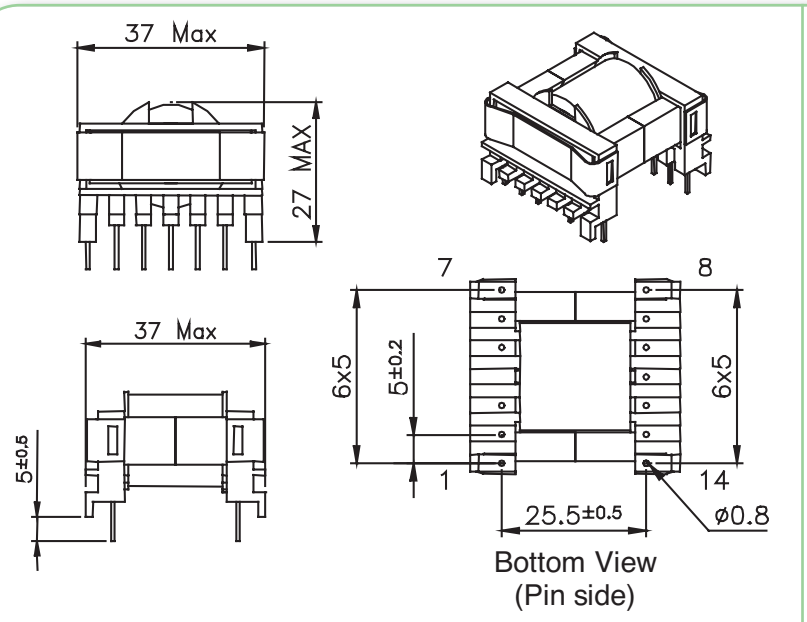
Note for 74030 : S2 and S3 can be connected in series or in parallel

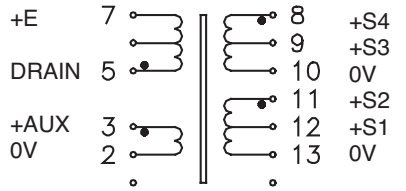
Examples of application with Integrated Circuits :

MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74030	Power Integrations	185 - 265Vrms	30w	132kHz
	Power Integrations	85 - 265Vrms	25w	66 or 132kHz
	ST Microelectronics	85 - 265Vrms	22w	70kHz
	ST Microelectronics	185 - 265Vrms	30w	70kHz
	Motorola	85 - 265Vrms	22w	100kHz
	Motorola	185 - 265Vrms	30w	100kHz
	Infineon	185 - 265Vrms	30w	100kHz
	Fairchild	85 - 265Vrms	22w	100kHz
74032	Power Integrations	185 - 265Vrms	25w	132kHz

*design on request at myrra.com

- Primary / Secondary Insulation ≥ 4000V
- Primary / Auxiliary Insulation ≥ 1500V
- Creepage distance Primary / Secondary ≥ 6mm
- Ambient temperature < 50°C
- Construction conforms to IEC60335-1, IEC60950-1, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials





PIN 4 Removed
PCB Drilling Diameter = 1.3mm

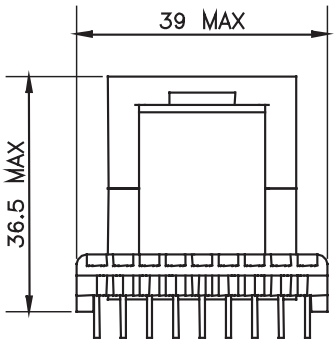
MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74040	60 w	Pri	5 – 7	50	85 - 265Vrms	3.0 Apeak	500µH
		Aux	3 – 2	6	7 – 14.5 Vdc	0.5 Adc	
		S1	12 – 13	3	3.3 - 7	4 Adc	
		S2	11 – 13	7	8 – 16.5 Vdc	2.5 Adc	
		S3	9 – 10	3	3.3 - 7	4 Adc	
		S4	8 - 10	7	8 – 16.5 Vdc	2.5 Adc	

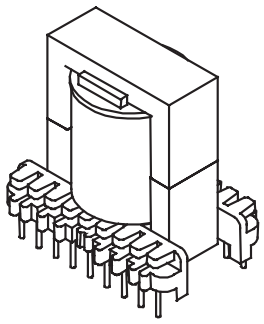
Note : S1 / S3 or S2 / S4 can be connected in series or in parallel

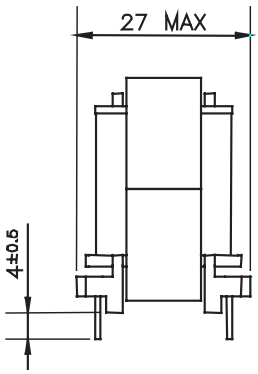
Examples of application with Integrated Circuits :

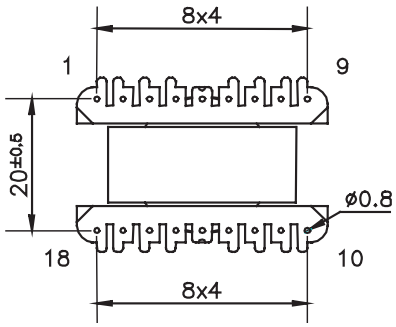
MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74040	Power Integrations	185 - 265Vrms	60w	66 or 132kHz
	Power Integrations	85 - 265Vrms	45w	66 or 132kHz
	ST Microelectronics	85 - 265Vrms	35w	100kHz
	ST Microelectronics	185 - 265Vrms	45w	100kHz
	Motorola	85 - 265Vrms	35w	100kHz
	Motorola	185 - 265Vrms	45w	100kHz
	Infineon	92 - 265Vrms	35w	100kHz
	Infineon	185 - 265Vrms	45w	100kHz

- Primary / Secondary Insulation ≥ 4000V
- Primary / Auxiliary Insulation ≥ 1500V
- Creepage distance Primary / Secondary ≥ 6mm
- Ambient temperature < 50°C
- Construction conforms to IEC60335-1, IEC60950-1, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials

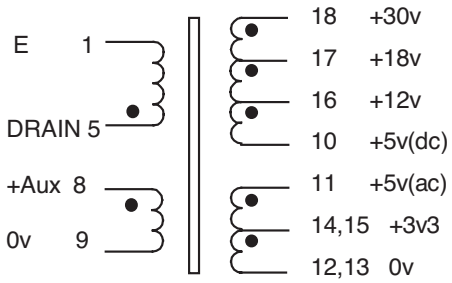








Bottom View (Pin side)



PCB Drilling Diameter = 1.3mm

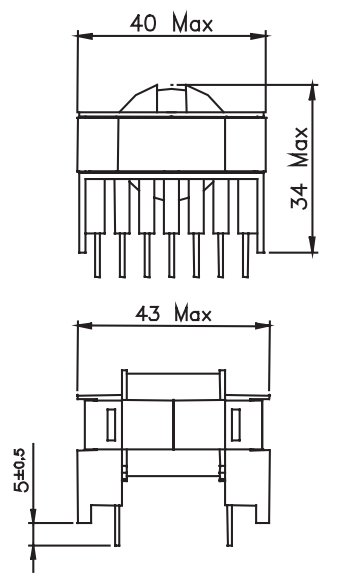
MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74043	60w	Pri	5 – 1	45	85 - 265Vrms	3 Apeak	500µH
		Aux	8 – 9	7	15 Vdc	0.5 Adc	
		S1	14+15 / 12+13	2	3.3 Vdc	S1+S2 : 7 Adc	
		S2	11 / 12+13	3	5 Vdc	S1+S2 : 7 Adc	
		S3	16 – 10	4	12 Vdc	2 Adc	
		S4	17 – 10	7	18 Vdc	2 Adc	
		S5	18 – 10	13	30 Vdc	0.5 Adc	

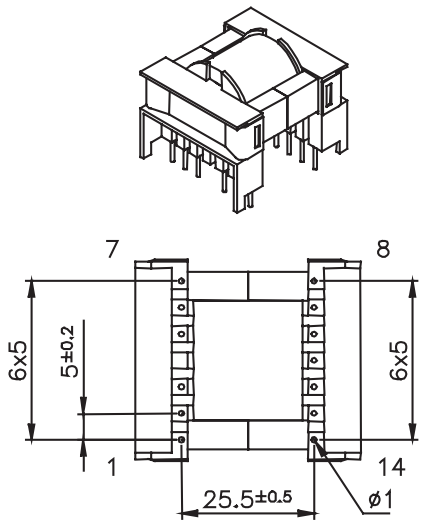
Examples of application with Integrated Circuits :

MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74043	Power Integrations	185 - 265Vrms	60w	66 or 132kHz
	Power Integrations	85 - 265Vrms	45w	66 or 132kHz

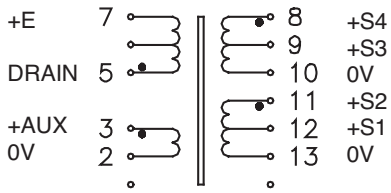
*design on request at myrra.com

- Primary / Secondary Insulation ≥ 4000V
- Primary / Auxiliary Insulation ≥ 1500V
- Creepage distance Primary / Secondary ≥ 8mm
- Ambient temperature < 50°C
- Construction conforms to IEC60335-1, IEC60950-1, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials





Bottom View
(Pin side)



PIN 4 Removed
PCB Drilling Diameter = 1.5mm

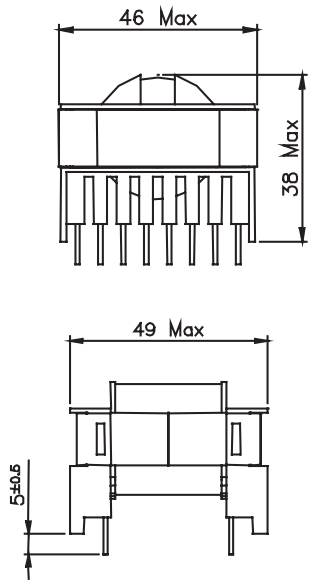
MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74050	90 w	Pri	5 – 7	36	85 - 265Vrms	2.8 Apeak	500µH
		Aux	3 – 2	4	7 – 14 Vdc	0.5 Adc	
		S1	12 – 13	2	3.3 – 6.5	5 Adc	
		S2	11 – 13	5	8.5 – 17 Vdc	3 Adc	
		S3	9 – 10	2	3.3 – 6.5	5 Adc	
		S4	8 - 10	5	8.5 – 17 Vdc	3 Adc	

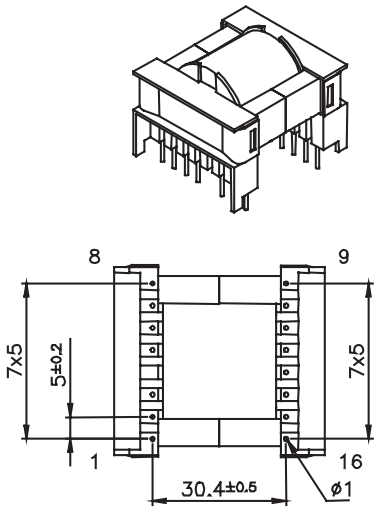
Note : S1 / S3 or S2 / S4 can be connected in series or in parallel

Examples of application with Integrated Circuits :

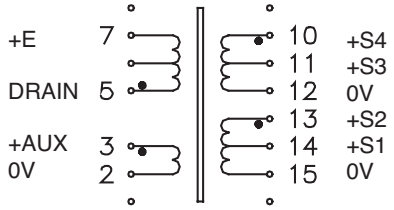
MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74050	Power Integrations	185 - 265Vrms	90w	132kHz
	Power Integrations	85 - 265Vrms	60w	66 or 132kHz
	ST Microelectronics	185 - 265Vrms	80w	70kHz
	ST Microelectronics	85 - 265Vrms	60w	70kHz
	Motorola	185 - 265Vrms	80w	100kHz
	Motorola	85 - 265Vrms	60w	100kHz
	Infineon	185 - 265Vrms	80w	100kHz
	Infineon	85 - 265Vrms	60w	100kHz

- Primary / Secondary Insulation ≥ 4000V
- Primary / Auxiliary Insulation ≥ 1500V
- Creepage distance Primary / Secondary ≥ 8mm
- Ambient temperature < 50°C
- Construction conforms to IEC60335-1, IEC60950-1, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials





Bottom View
(Pin side)



PIN 4 Removed
PCB Drilling Diameter = 1.5mm

MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74060	140 w	Pri	5 – 7	36	85 - 265Vrms	4 Apeak	440µH
		Aux	3 – 2	4	7 – 14 Vdc	0.5 Adc	
		S1	14 – 15	2	3.3 – 6.5	5 Adc	
		S2	13 – 15	5	8.5 – 17 Vdc	5 Adc	
		S3	11 – 12	2	3.3 – 6.5	5 Adc	
		S4	10 – 12	5	8.5 – 17 Vdc	5 Adc	

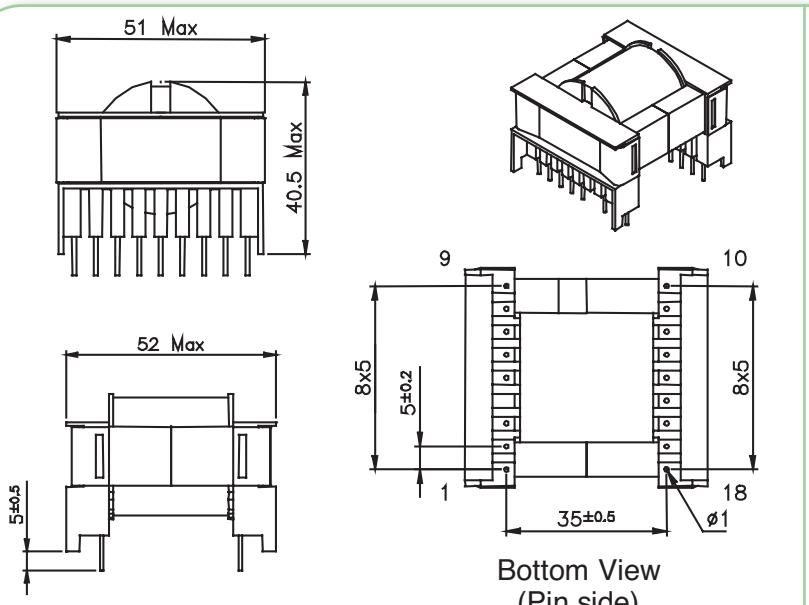
Note : S1 / S3 or S2 / S4 can be connected in series or in parallel

Examples of application with Integrated Circuits :

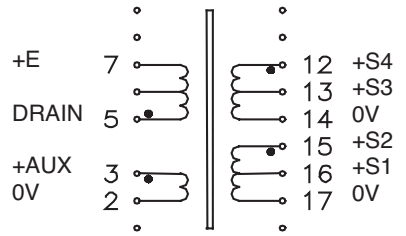
MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74060	Power Integrations	185 - 265Vrms	140w	132kHz
	Power Integrations	85 - 265Vrms	90w	66 or 132kHz
	ST Microelectronics	85 - 265Vrms	70w	70kHz
	ST Microelectronics	185 - 265Vrms	120w	100kHz
	Motorola	85 - 265Vrms	70w	100kHz
	Motorola	185 - 265Vrms	120w	100kHz
	Infineon	85 - 265Vrms	70w	100kHz
	Infineon	185 - 265Vrms	120w	100kHz
	Fairchild	85 - 265Vrms	70w	100kHz
	Fairchild	185 - 265Vrms	120w	100kHz

*design on request at myrra.com

- Primary / Secondary Insulation ≥ 4000V
- Primary / Auxiliary Insulation ≥ 1500V
- Creepage distance Primary / Secondary ≥ 8mm
- Ambient temperature < 50°C
- Construction conforms to IEC60335-1, IEC60950-1, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



Bottom View
(Pin side)



PIN 4 Removed
PCB Drilling Diameter = 1.5mm

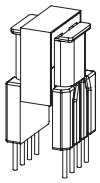
MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74070	180 w	Pri	5 – 7	38	85 - 265Vrms	8 Apeak	300µH
		Aux	3 – 2	4	7 – 14 Vdc	0.5 Adc	
		S1	16 – 17	2	3.3 – 6.5	6 Adc	
		S2	15 – 17	5	8.5 – 17 Vdc	5 Adc	
		S3	13 – 14	2	3.3 – 6.5	6 Adc	
		S4	12 – 14	5	8.5 – 17 Vdc	5 Adc	

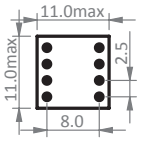
Note : S1 / S3 or S2 / S4 can be connected in series or in parallel

Examples of application with Integrated Circuits :

MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74070	Power Integrations	185 - 265Vrms	180w	66 or 132kHz
	Power Integrations	85 - 265Vrms	120w	66kHz
	Infineon	185 - 265Vrms	160w	100kHz
	Fairchild	185 - 265Vrms	160w	100kHz
	Philips	185 - 265Vrms	120w	50kHz

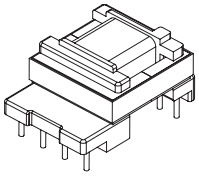
1W 2W 5W 10W

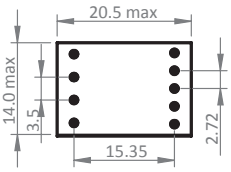




Heigth : 19.0mm max

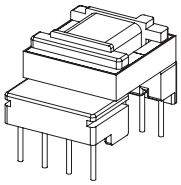
E 10
reinforced insulation
creepage distances: 6mm

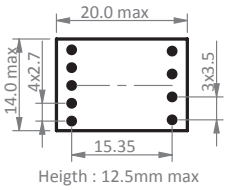




Heigth : 11mm max

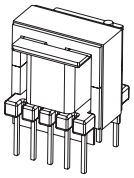
EF 12.6
reinforced insulation
creepage distances: 6mm

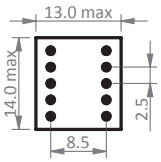




Heigth : 12.5mm max

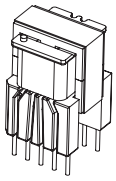
EF 12.6
reinforced insulation
creepage distances: 6mm

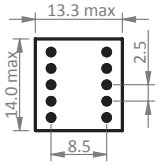




Heigth : 14.8mm max

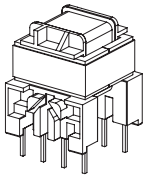
E 13
basic insulation

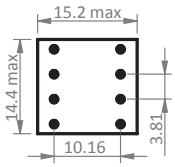




Heigth : 19.2mm max

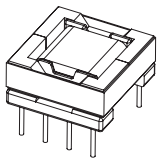
E 13
reinforced insulation
creepage distances: 6mm

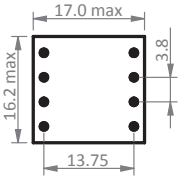




Heigth : 17.7mm max

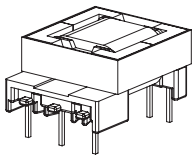
E 13
reinforced insulation
creepage distances: 6mm

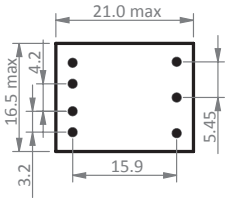




Heigth : 11mm max

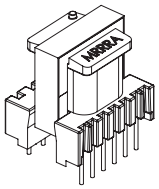
EFD 15
basic insulation

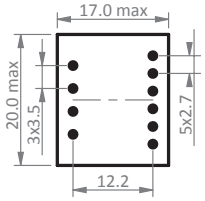




Heigth : 10.0mm max

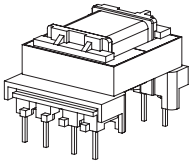
EFD 15
reinforced insulation
creepage distances: 6mm

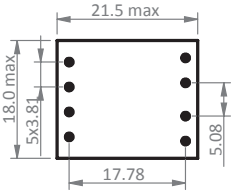




Heigth : 21.0 mm max

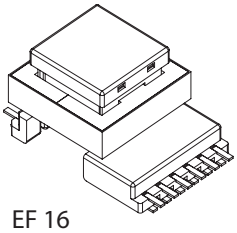
E 16
reinforced insulation
creepage distances: 6mm

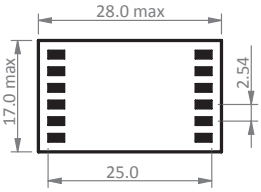




Heigth : 14.0mm max

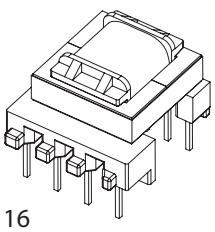
EF 16
reinforced insulation
creepage distances: 6mm

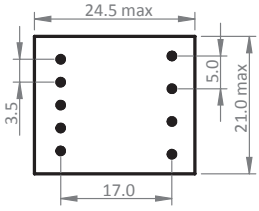




Heigth : 14.7mm max

EF 16
reinforced insulation
creepage distances: 6mm





Heigth : 17mm max

EF 16
reinforced insulation
creepage distances: 6mm

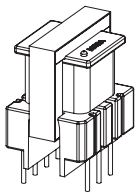
HIGH FREQUENCY FERRITE
POWER FERRITE TRANSFORMERS

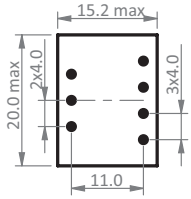
*non-exhaustive list

myrra
a discoverIE group company

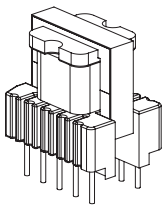
*design on request at myrra.com

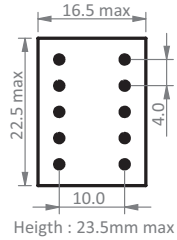
20W



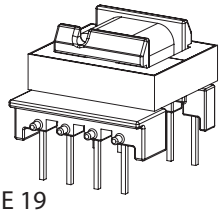


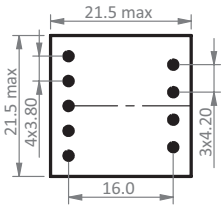
E 19
reinforced insulation
creepage distances: 6mm
Heigth : 23.5mm max



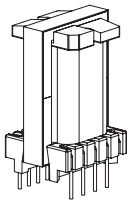


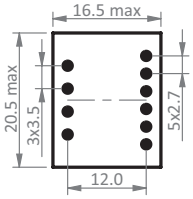
E 19
reinforced insulation
creepage distances: 6mm
Heigth : 23.5mm max



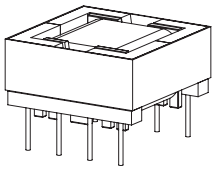


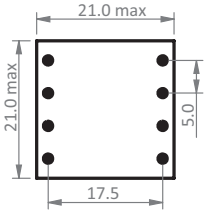
E 19
reinforced insulation
creepage distances: 6mm
Heigth : 15.0mm max



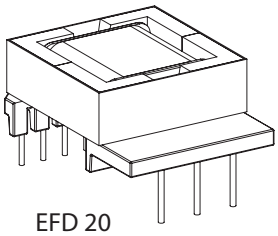


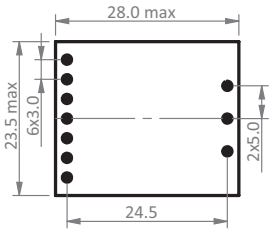
EL 19
reinforced insulation
creepage distances: 6mm
Heigth : 31.0mm max



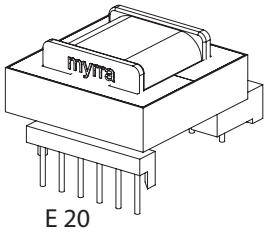


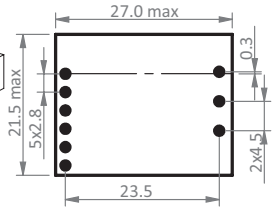
EFD 20
basic insulation
Heigth : 11.0mm max



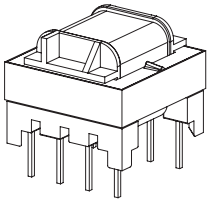


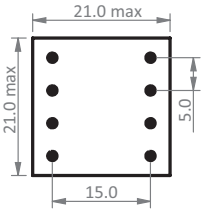
EFD 20
reinforced insulation
creepage distances: 6mm
Heigth : 11.5mm max



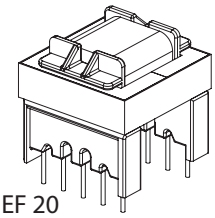


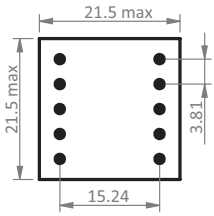
E 20
reinforced insulation
creepage distances: 6mm
Heigth : 13.0mm max



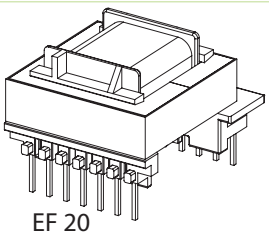


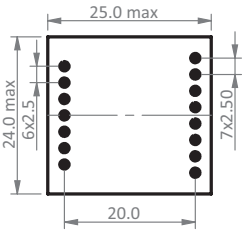
EF 20
basic insulation
Heigth : 16.0mm max



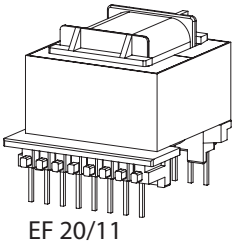


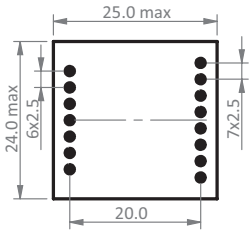
EF 20
reinforced insulation
creepage distances: 6mm
Heigth : 21.0mm max



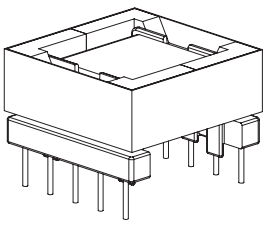


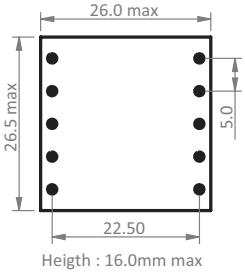
EF 20
reinforced insulation
creepage distances: 8mm
Heigth : 16.0mm max





EF 20/11
reinforced insulation
creepage distances: 6mm
Heigth : 22.0mm max

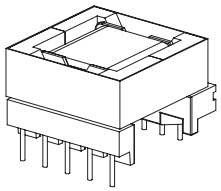


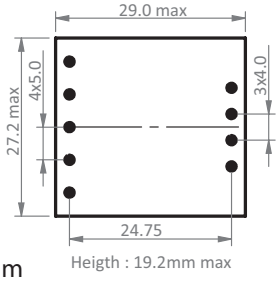


EFD 25
basic insulation
Heigth : 16.0mm max

*non-exhaustive list

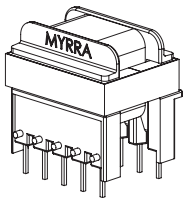
50W — 100W — 200W

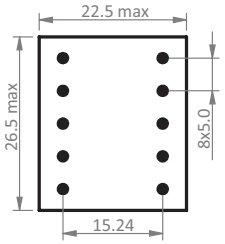




EFD 25
reinforced insulation
creepage distances: 6mm

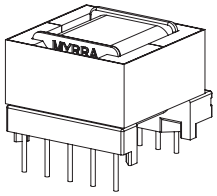
Heigth : 19.2mm max

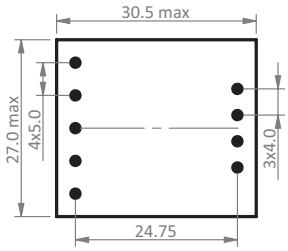




E 25
reinforced insulation
creepage distances: 8mm

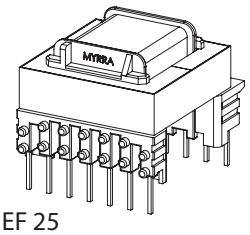
Heigth : 26.5mm max

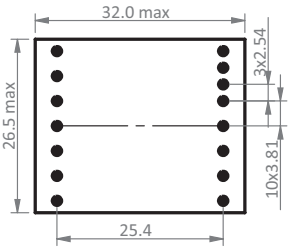




EVD 25
reinforced insulation
creepage distances: 6mm

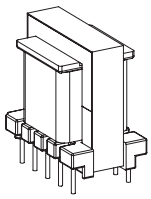
Heigth : 23.0mm max

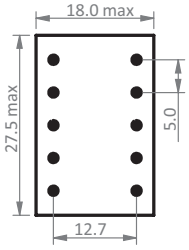




EF 25
reinforced insulation
creepage distances: 8mm

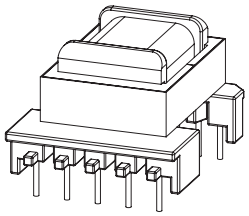
Heigth : 22.0mm max

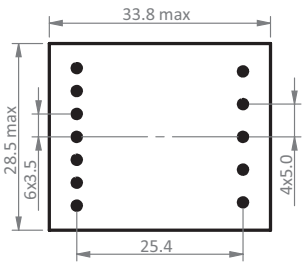




EF 25
reinforced insulation
creepage distances: 6mm

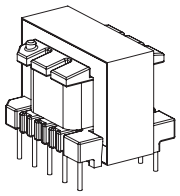
Heigth : 27.0mm max

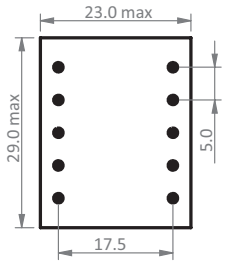




EF 25
reinforced insulation
creepage distances: 6mm

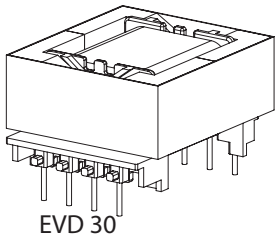
Heigth : 20.5mm max

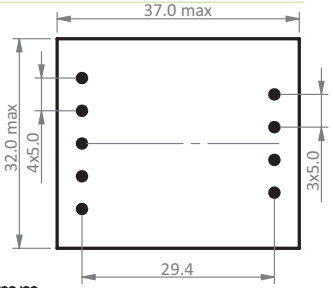




EI 28
reinforced insulation
creepage distances: 6mm

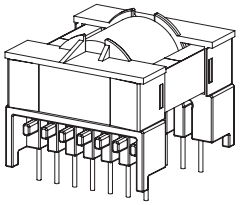
Heigth : 22.0mm max

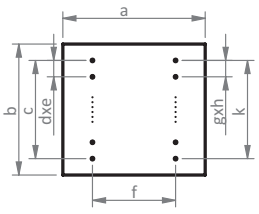




EVD 30
reinforced insulation
creepage distances: 6mm

Heigth : 20.5mm max

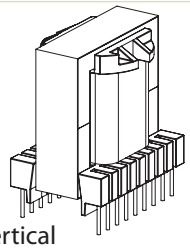


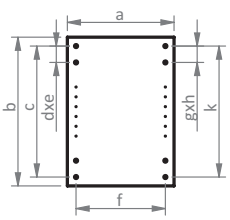


ETD Horizontal
reinforced insulation
creepage distances: 6mm

unit:mm

Size	Pin Qty.	a (max)	b (max)	c	dxe	f	gxh	k	height (max)
ETD29	7+7	36.5	36.5	30.48	6x5.08	25.4	6x5.08	30.48	25.5
ETD34	7+7	43.0	41.0	30.0	6x5.0	25.5	6x5.0	30.0	34.5
ETD39	8+8	45.0	45.0	35.0	7x5.0	30.2	7x5.0	35.0	34.0
ETD44	9+9	52.5	50.0	40.0	8x5.0	35.56	8x5.0	40.0	40.0
ETD49	10+10	58.0	57.0	45.0	9x5.0	40.8	9x5.0	45.0	43.5





ETD Vertical
reinforced insulation
creepage distances: 6mm

unit:mm

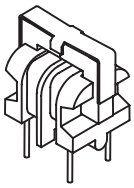
Size	Pin Qty.	a (max)	b (max)	c	dxe	f	gxh	k	height (max)
ETD29	7+7	25.0	35.5	30.48	6x5.08	20.32	6x5.08	30.48	41.5
ETD34	7+7	28.0	35.5	30.48	6x5.08	22.85	6x5.08	30.48	35.5
ETD39	8+8	31.5	41.0	35.0	7x5.0	25.4	7x5.0	35.0	47.0
ETD44	9+9	33.5	46.0	40.0	8x5.0	27.5	8x5.0	40.0	51.0
ETD49	11+11	50.0	68.2	50.8	10x5.08	33.02	10x5.08	50.8	72.5

*non-exhaustive list

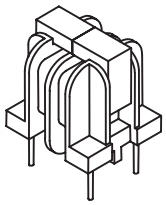
HIGH FREQUENCY FERRITE
POWER FERRITE TRANSFORMERS

myrra
a discoverIE group company

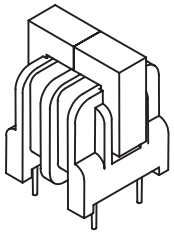
*design on request at myrra.com



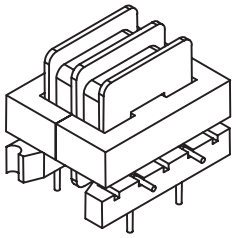
U9.8



U10.5



U16

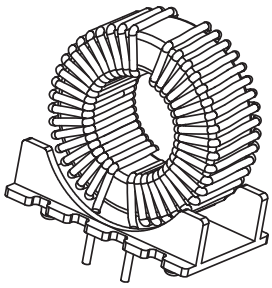


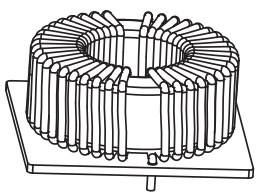
E25

- Mainly used to reduce noise conducted through power or signal lines.
- The common mode inductance filters symmetrical noise, associated with Y-type safety capacitors connected to ground.
- The differential mode inductance filters asymmetrical noise, associated with X-type capacitor connected between Line and Neutral.

MYRRA Part N°	SIZE	Inductance range	Current range
74330 - 74339	U9.8	1.5 to 47mH	0.18 to 1.1A
74300 - 74306	U10.5	1.5 to 68mH	0.30 to 1.9A
74310 - 74315	U16	1.5 to 33mH	0.75 to 3.3A
74320 - 74325	E25	1.5 to 33mH	0.90 to 4.0A

• Toroidal Common Mode Chokes - Custom design available upon request

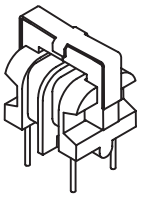


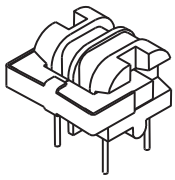


- Ambient Temperature ≤ 50°C
- Dielectric Strength ≥ 1.5 kV between windings
- Electrical characteristics at 25 °C

SIZE : U9.8

Vertical Type



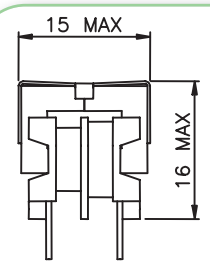


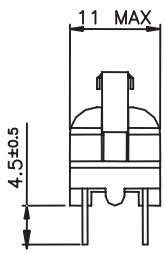
Horizontal Type

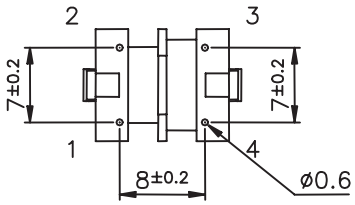
ELECTRICAL CHARACTERISTICS :

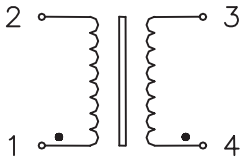
MYRRA Part N°		Inductance Common Mode min - max (mH)	Rated Current Arms	Resistance per winding ohm max	Inductance Differential Mode µH min	Resonant Frequency kHz min
Vertical Type	**Horizontal Type**					
74330	**74335**	33 - 56	0.18	7	710	210
74331	**74336**	18 - 31	0.26	3.5	360	280
74332	**74337**	10 - 17	0.35	2.0	210	400
74333	**74338**	4.7 - 8	0.5	.95	100	610
74334	**74339**	2.2 - 3.7	0.8	.4	45	910

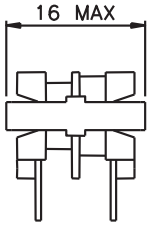
MECHANICAL CHARACTERISTICS / PINOUT :

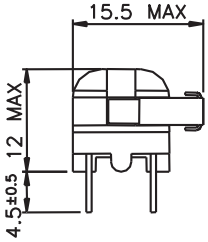


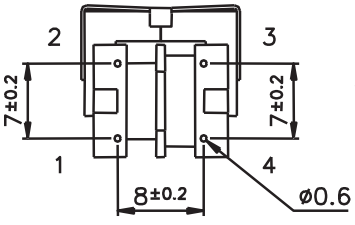










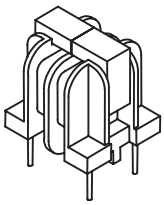


View from pin side
PCB Drilling diameter 1.0 mm

*design on request at myrra.com

- Ambient Temperature ≤ 50°C
- Dielectric Strength ≥ 1.5 kV between windings
- Electrical characteristics at 25 °C

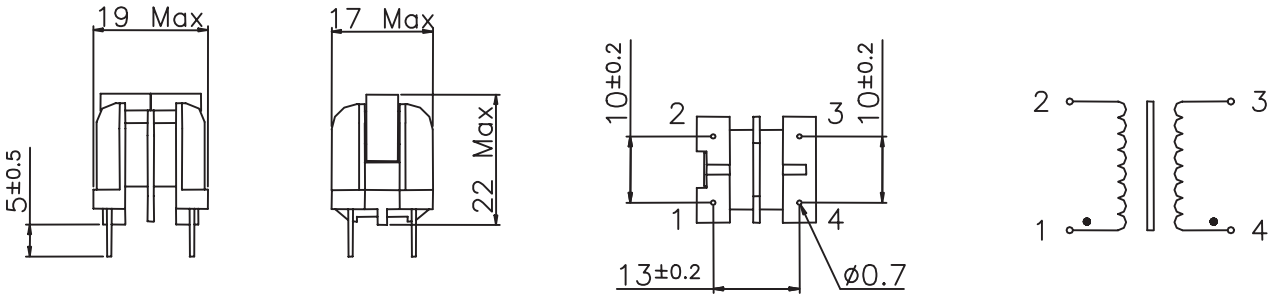
SIZE : U10.5



ELECTRICAL CHARACTERISTICS :

MYRRA Part N°	Inductance Common Mode min - max (mH)	Rated Current Arms	Resistance per winding ohm max	Inductance Differential Mode µH min	Resonant Frequency kHz min
74306	51 - 85	0.3	4	530	125
74300	33 - 56	0,35	3	400	170
74301	18 - 31	0,45	1,7	240	220
74302	10 - 17	0,6	1	140	320
74303	4.7 - 8	0,9	0,43	65	480
74304	2.2 - 3.7	1,3	0,23	32	740
74305	1 - 1.7	1,9	0,1	14	1000

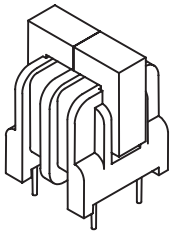
MECHANICAL CHARACTERISTICS / PINOUT :



View from pin side
PCB Drilling diameter 1.1 mm

- Ambient Temperature ≤ 50°C
- Dielectric Strength ≥ 1.5 kV between windings
- Electrical characteristics at 25 °C

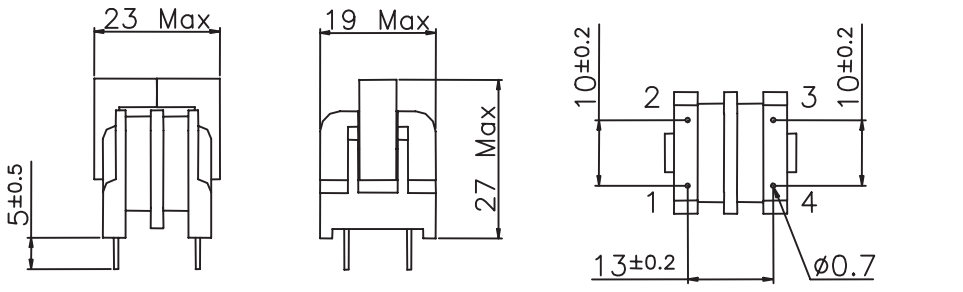
SIZE : U16



ELECTRICAL CHARACTERISTICS :

MYRRA Part N°	Inductance Common Mode min - max (mH)	Rated Current Arms	Resistance per winding ohm max	Inductance Differential Mode µH min	Resonant Frequency kHz min
74310	22 – 37	0,75	1	230	170
74311	15 – 25	0,9	0,75	150	210
74312	10 - 17	1,1	0,44	100	280
74313	4.7 - 8	1,5	0,24	50	440
74314	2.2 - 3.7	2,3	0,095	20	650
74315	1 - 1.7	3,3	0,046	10	1000

MECHANICAL CHARACTERISTICS / PINOUT :

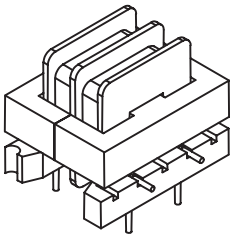


View from pin side
PCB Drilling diameter 1.1 mm

*design on request at myrra.com

- Ambient Temperature ≤ 50°C
- Dielectric Strength ≥ 1.5 kV between windings
- Electrical characteristics at 25 °C

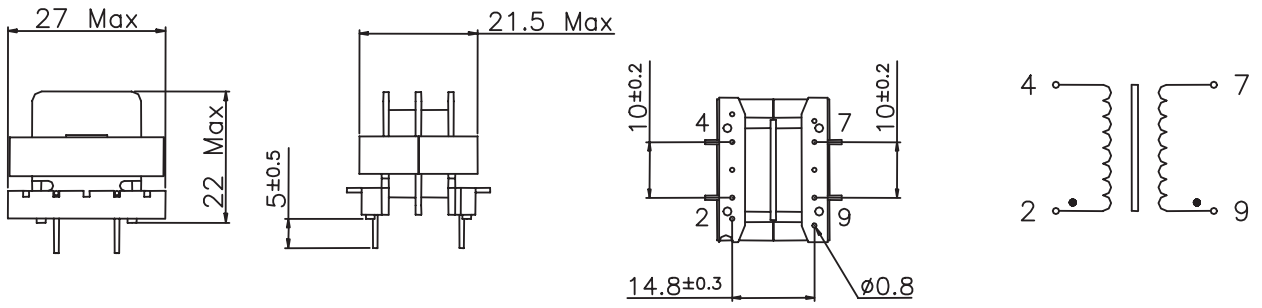
SIZE : E25



ELECTRICAL CHARACTERISTICS :

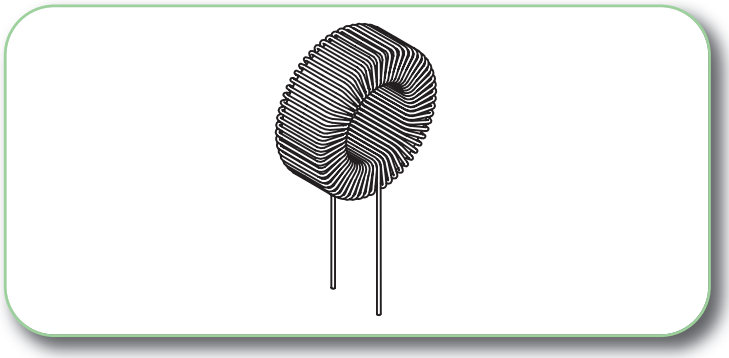
MYRRA Part N°	Inductance Common Mode min - max (mH)	Rated Current Arms	Resistance per winding ohm max	Inductance Differential Mode µH min	Resonant Frequency kHz min
74320	22 – 37	0,9	0,54	130	170
74321	15 – 25	1,1	0,35	90	210
74322	10 - 17	1,3	0,22	50	270
74323	4.7 - 8	1,8	0,105	25	400
74324	2.2 - 3.7	2,7	0,05	11	630
74325	1 - 1.7	4	0,03	7	950

MECHANICAL CHARACTERISTICS / PINOUT :



View from pin side
PCB Drilling diameter 1.2 mm

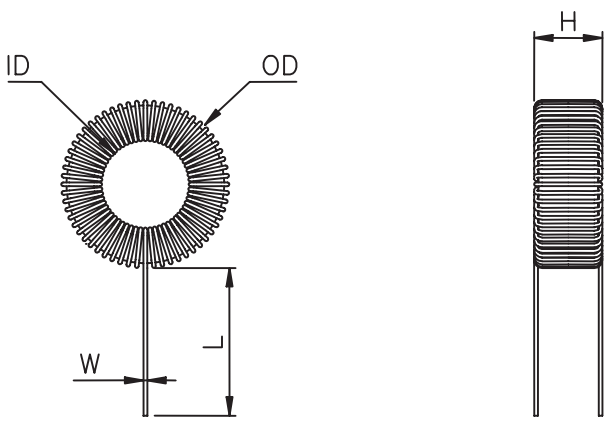
- For noise suppression in light dimmers
- Saturable chokes : provides a high impedance for Triac switching interferences, and a low impedance for 50Hz component.
- Electrical characteristics at 25 °



ELECTRICAL CHARACTERISTICS :

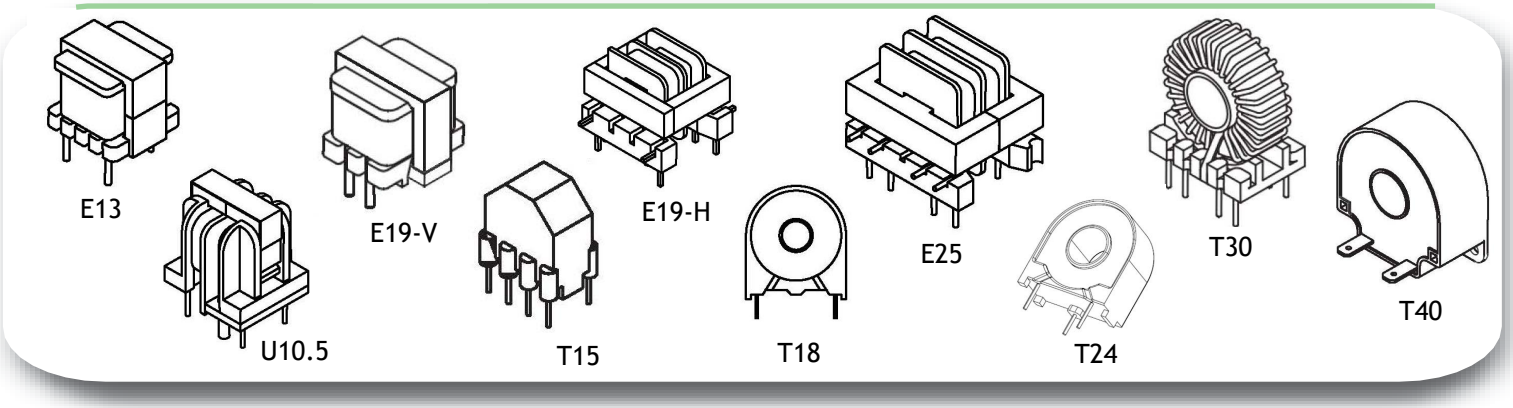
MYRRA Part N°	Power	Inductance +/- 15 %	Rated Current	Resistance	Associated Capacitor	Dimensions (mm)				Approx. Weight
						OD max	ID min	H max	W max	
74190	150 w	3.5 mH	0.7 Arms	1.5 Ω	22 nF	24	9	9.5	0.5	13 g
74191	300 w	2.8 mH	1.3 Arms	0.73 Ω	47 nF	29	10	12	0.7	24 g
74192	500 w	2.0 mH	2.2 Arms	0.35 Ω	82 nF	32.5	9	16	0.9	47 g
74196	500 w	1.8 mH	2.2 Arms	0.37 Ω	82 nF	38	14	12	0.9	39 g
74193	1000 w	1.3 mH	4.5 Arms	0.15 Ω	220 nF	44	14	16.5	1.2	80 g
74194	2200 w	450 µH	10 Arms	0.04 Ω	470 nF	50	12	22.5	1.8	140 g
74195	4500 w	250 µH	20 Arms	0.014 Ω	1 µF	58	10	28	2.5	250 g

MECHANICAL CHARACTERISTICS :



L = 25 +/-10mm

*design on request at myrra.com

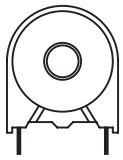


- **FOR MAINS AC CURRENT MEASUREMENT - 50 to 400 Hz**

MYRRA P/N	SIZE	Ratio	Current range
PIN PRIMARY - up to 25A			
74521	Size E19-H	Ratio 1 / 1 / 750	Current 10 A / 20 A
74523	Size E19-V	Ratio 1 / 500	Current 15 A
74531	Size E25	Ratio 1 / 1 / 1000	Current 12.5 A / 25 A
74533	Size E25	Ratio 1 / 1000	Current 8 A
74534	Size E25	Ratio 1 / 350	Current 4 A
74561	Size U10.5	Ratio 1 / 2000	Current 8 A
THRU-HOLE PRIMARY - up to 250A			
74503	Size T18	Ratio 1 / 1000	Current 12 A
74504	Size T18	Ratio 1 / 750	Current 10 A
74511	Size T30	Ratio 1 / 1000	Current 60 A
74543, 74544, 74545	Size T40	Ratio 1 / 500	Current 100 A
74546, 74547, 74548	Size T40	Ratio 1 / 1000	Current 250 A
74583	Size T24	Ratio 1 / 1000	Current 80 A
74584	Size T24	Ratio 1 / 2000	Current 100A

- **FOR SWITCH MODE POWER SUPPLIES - 1 to 500kHz**

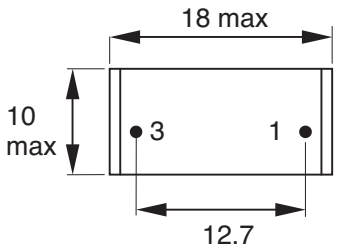
MYRRA P/N	SIZE	Ratio	Current range
PIN PRIMARY - up to 25A			
74505	Size T15	Ratio 1 / 50	Current 25 A
74506	Size T15	Ratio 1 / 100	Current 25 A
74507	Size T15	Ratio 1 / 200	Current 25A
74508	Size T15	Ratio 1 / 500	Current 25A
74509	Size T15	Ratio 1 / 1000	Current 25 A
74520	Size E19-H	Ratio 1 / 1 / 100	Current 10 A/ 20 A
74530	Size E25	Ratio 1 / 1 / 100	Current 12.5 A/ 25 A
74550	Size E13	Ratio 1 / 100	Current 10 A
74560	Size U10.5	Ratio 1 / 100	Current 10 A
74562	Size U10.5	Ratio 1 / 100	Current 10 A
74570	Size T15	Ratio 1 / 1 / 50	Current 10 A/ 20 A
THRU-HOLE PRIMARY - up to 200A			
74500	Size T18	Ratio 1 / 50	Current 15 A
74501	Size T18	Ratio 1 / 100	Current 25 A
74502	Size T18	Ratio 1 / 200	Current 25 A
74510	Size T30	Ratio 1 / 100	Current 150 A
74540, 74541, 74542	Size T40	Ratio 1 / 100	Current 200 A
74580	Size T24	Ratio 1 / 50	Current 60 A
74581	Size T24	Ratio 1 / 100	Current 80 A
74582	Size T24	Ratio 1 / 200	Current 60 A

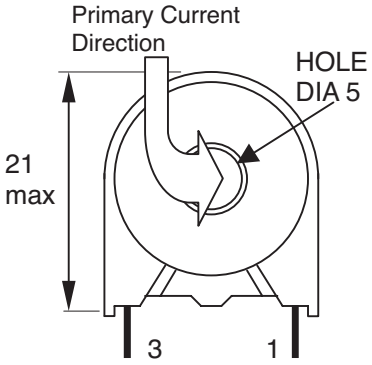


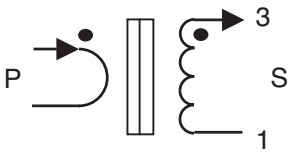
MYRRA Part N°	Sec. Turns	Max Pri. Current A rms	Rsec. Ω max	Lsec. mH min	Pulse Vsec x t max @ Frequency	Sine Vsec max @ Frequency	Typical Load/ Accuracy/ Current
74500	50	15 A	0.6 Ω	5	175 V.µS 20 – 200 kHz	15 V 20 – 200 kHz	50 Ω / 1% / 15 A
74501	100	25 A	1.5 Ω	20	350 V.µS 20 – 100 kHz	25 V 20 – 100 kHz	100 Ω / 1% / 25 A
74502	200	25 A	5 Ω	80	700 V.µS 20 – 100 kHz	50 V 20 – 100 kHz	200 Ω / 1% / 25 A
74503	1000	12 A	45 Ω	2000	2.5 V.ms 50 Hz	0.15V/ 50 Hz/ 12A 0.6V/ 50 Hz/ 8A	≤ 10 Ω / 2% / 12 A ≤ 40 Ω / 2% / 8 A
74504	750	10 A	35 Ω	1100	2.0 V.ms 50 Hz	0.13V/ 50 Hz/ 10A 0.3V/ 50 Hz/ 5A	≤ 10 Ω / 2% / 10 A ≤ 40 Ω / 2% / 5 A

Data applies for one primary turn (single passage of primary wire through toroid hole).
Sensitivity can be increased for lower currents by winding more than one turn.

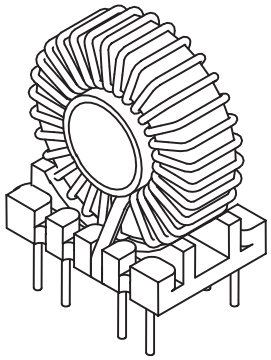
74500 / 74501 / 74502
74503 / 74504







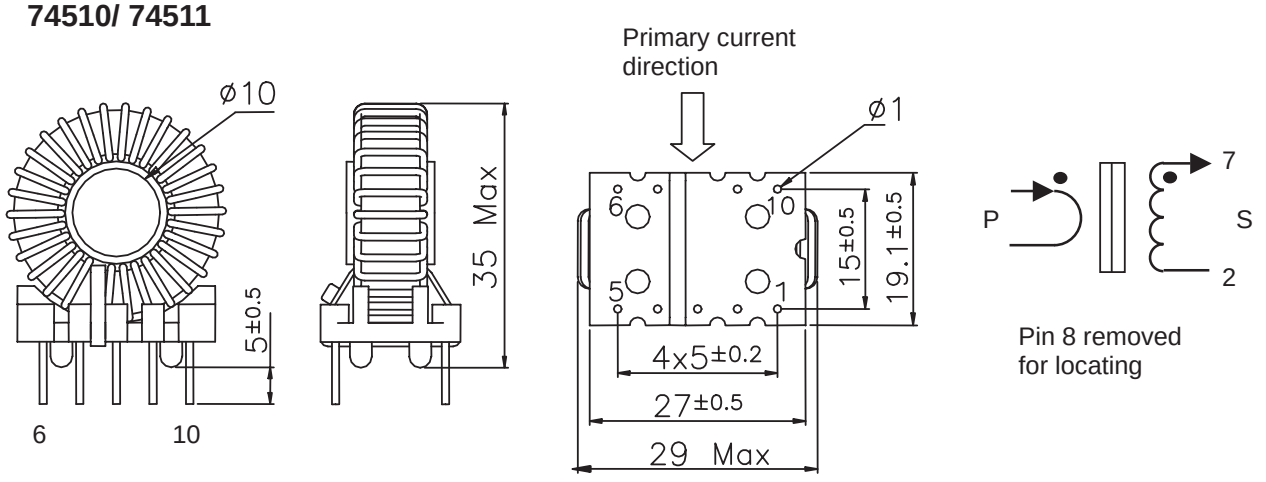
*design on request at myrra.com

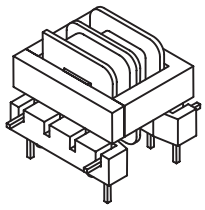


MYRRA Part N°	Sec. Turns	Max Pri. Current A rms	Rsec. Ω max	Lsec. mH min	Pulse Vsec x t max @ Frequency	Sine Vsec max @ Frequency	Typical Load/ Accuracy/ Current
74510	100	150 A	0.25Ω	40	1 V.ms/ 20 kHz 700 V µs/ 100 kHz	50 V/ 20 kHz 80 V/ 100 kHz	1 - 20 Ω / 1%
74511	1000	60 A	32 Ω	4000	10 V.ms/ 50 Hz	0.6 V/ 50 Hz/ 60 A 1 V/ 50 Hz/ 40 A	≤ 10 Ω / 1% / 60 A ≤ 20 Ω / 1% / 40 A

Data applies for one primary turn (single passage of primary wire through toroid hole).
Sensitivity can be increased for lower currents by winding more than one turn.
Models with 50, 100, 200 turns are designed for switch-mode power conversion (up to 200 kHz).
Models with 500 and 1000 turns are designed for Mains current measurement (50 to 400 Hz).

74510/ 74511





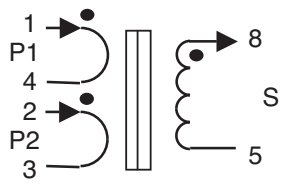
FOR SWITCH MODE POWER SUPPLIES - 20 to 150 kHz								
MYRRA Part N°	Ratio	Max Pri. Current A rms	Rsec. Ω max	Lsec. mH min	Pulse Vsec x t max	Sine Vsec rms max	Typical Load/ Accuracy/ Current	Insulation Voltage P/ S
74520	1/1/100	20 A parallel 10 A serie	1.5	8	400 V.µs	50 Vrms	10 – 100 Ω / 1% / 10 A	2500 V

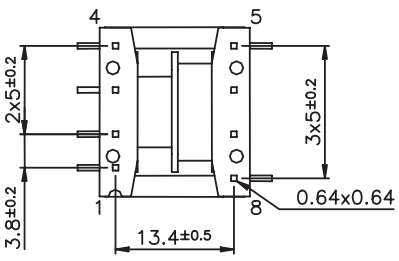
FOR MAINS AC CURRENT MEASUREMENT - 50 to 400 Hz								
MYRRA Part N°	Ratio	Max Pri. Current A rms	Rsec. Ω max	Lsec. mH min	Pulse Vsec x t max	Sine Vsec rms max	Typical Load/ Accuracy/ Current	Insulation Voltage P/ S
74521	1/1/750	20 A parallel 10 A serie	57	300	15 V.ms	3 Vrms	≤ 75 Ω / 4% / 20 A	2500 V

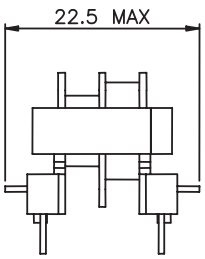
SAFETY :

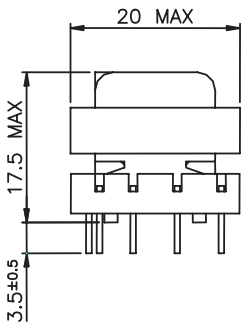
These products are only composed of UL approved materials.
These products have a construction conform to CEI950, CEI335, CEI61558 for Basic insulation (3 mm creepage distance)

74520/ 74521



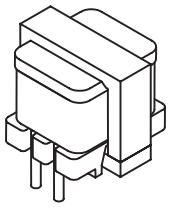






Pins 6 & 7 removed for locating
PCB drill @ Ø 1.3 mm

*design on request at myrra.com

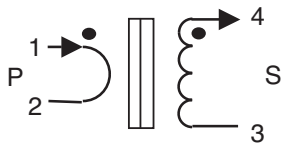


FOR MAINS AC CURRENT MEASUREMENT - 50 to 400 Hz								
MYRRA Part N°	Ratio	Max Pri. Current A rms	Rsec. Ω max	Lsec. mH min	Pulse Vsec x t max	Sine Vsec rms max	Typical Load/ Accuracy/ Current	Insulation Voltage P/ S
74523	1/ 500	15 A	155	670	30 V.ms	6 Vrms	≤ 50 Ω / 2% / 15 A ≤ 200 Ω / 5% / 10 A	1500 V

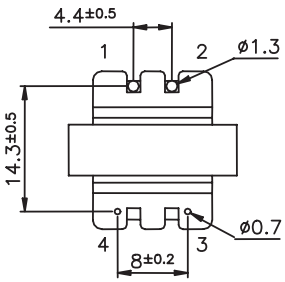
SAFETY :

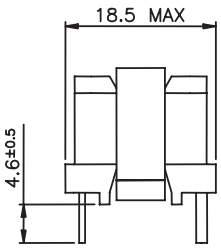
This product is only composed of UL approved materials.
This product has a construction conform to CEI950, CEI335, CEI61558 for Functional insulation

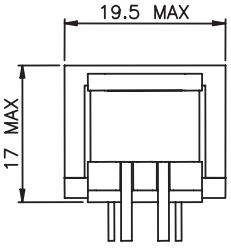
74523

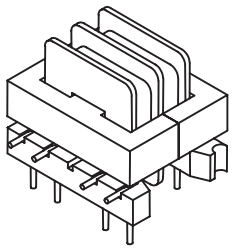


Pins 6 & 7 removed for locating
PCB drill @ Ø 1.2 & 1.8 mm









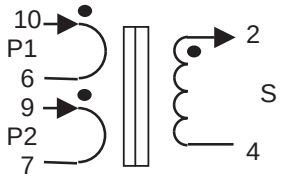
FOR SWITCH MODE POWER SUPPLIES - 20 to 150 kHz								
MYRRA Part N°	Ratio	Max Pri. Current A rms	Rsec. Ω max	Lsec. mH min	Pulse Vsec x t max	Sine Vsec rms max	Typical Load/ Accuracy/ Current	Insulation Voltage P/ S
74530	1/1/100	25 A parallel 12.5 A serie	1	10	600 V.µs	80 Vrms	10 - 100 Ω/ 1%/ 25 A	2500 V

FOR MAINS AC CURRENT MEASUREMENT - 50 to 400 Hz								
MYRRA Part N°	Ratio	Max Pri. Current A rms	Rsec. Ω max	Lsec. mH min	Pulse Vsec x t max	Sine Vsec rms max	Typical Load/ Accuracy/ Current	Insulation Voltage P/ S
74531	1/1/1000	25 A parallel 12.5 A serie	90	4 H	8 V.ms	1.6 Vrms	≤ 50 Ω / 2% / 20 A	2500 V
74533	1/ 1000	8 A	360	17 H	15 V.ms	3 Vrms	≤ 200 Ω / 1% / 8 A ≤ 500 Ω / 1.5% / 5 A	2500 V
74534	1/ 350	4 A	380	19 H	15 V.ms	3 Vrms	≤ 100 Ω / 1% / 4 A ≤ 500 Ω / 1% / 2 A	2500 V

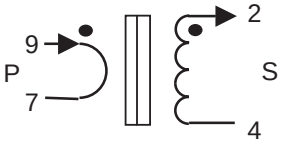
SAFETY :

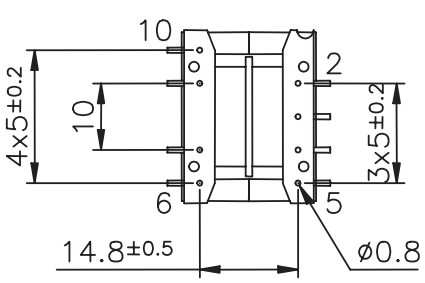
These products are only composed of UL approved materials.
These products have a construction conform to CEI950, CEI335, CEI61558 for Basic insulation (3 mm creepage distance)

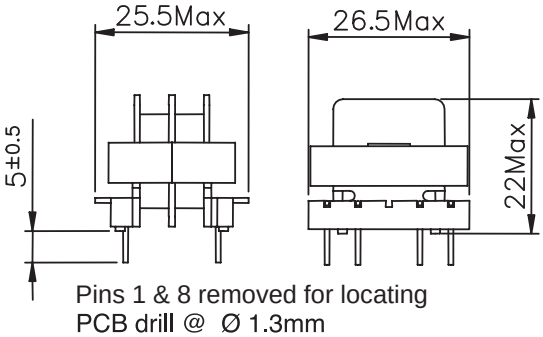
74530/ 74531



74533/ 74534

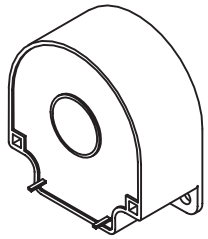






Pins 1 & 8 removed for locating PCB drill @ Ø 1.3mm

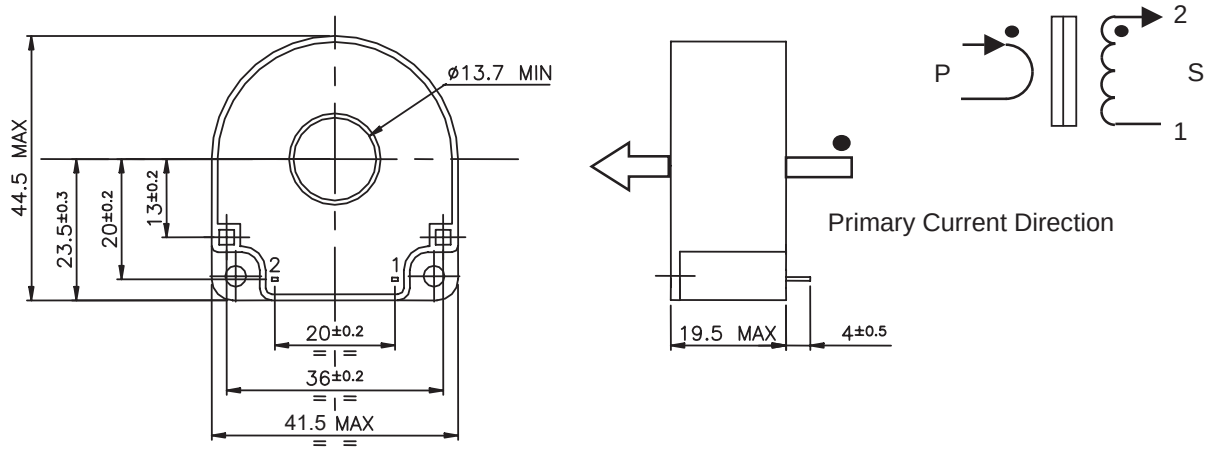
*design on request at myrra.com

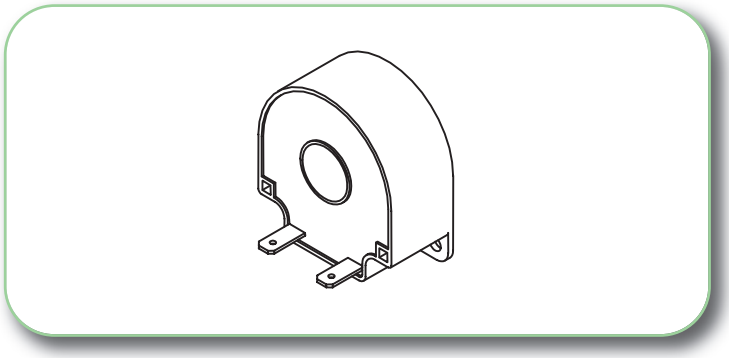


MYRRA Part N°	Sec. Turns	Max Pri. Current A rms	Rsec. Ω max	Lsec. mH min	Pulse Vsec x t max @ Frequency	Sine Vsec max @ Frequency	Typical Load/ Accuracy/ Current
74540	100	200 A	0.35 Ω	50	2 V.ms/ 20 kHz 1 V.ms/ 100 kHz	150 V/ 20 kHz 150 V/ 100 kHz	1..20 Ω / 1%
74543	500	100 A	6.5 Ω	1250	10 V.ms/ 50 Hz	0.7 V/ 50Hz/ 100 A 1.2 V/ 50Hz/ 60 A	≤ 3 Ω / 1% / 100 A ≤ 10 Ω / 1% / 60 A
74546	1000	250 A	22 Ω	8000	100 V.ms/ 50 Hz	15 V/ 50 Hz/ 250 A	≤ 50 Ω / 1% / 250 A

Data applies for one primary turn (single passage of primary wire through toroid hole).
Sensitivity can be increased for lower currents by winding more than one turn.

74540/ 74543/ 74546 Pin type (for PCB) ☐ 0.6 x 0.95

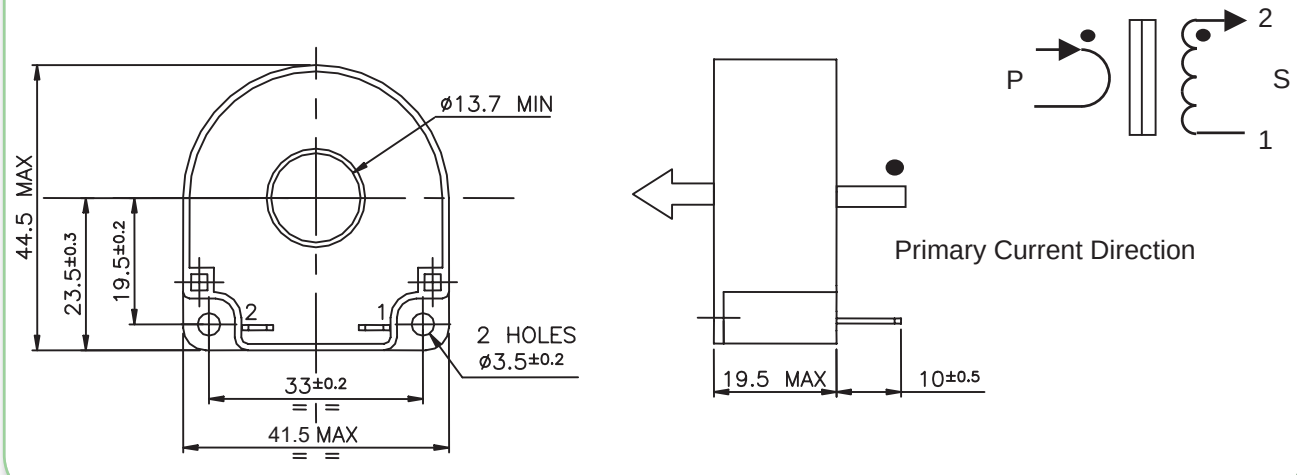




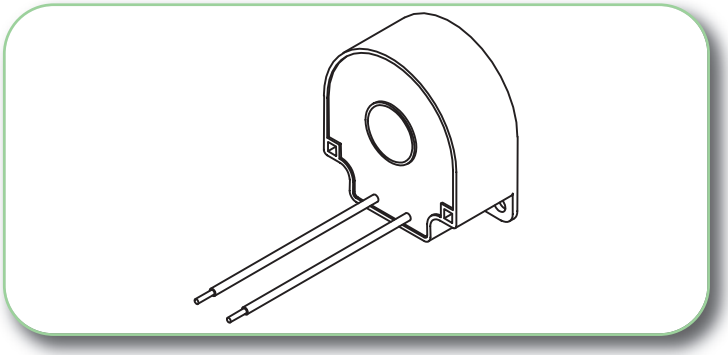
MYRRA Part N°	Sec. Turns	Max Pri. Current A rms	Rsec. Ω max	Lsec. mH min	Pulse Vsec x t max @ Frequency	Sine Vsec max @ Frequency	Typical Load/ Accuracy/ Current
74541	100	200 A	0.35 Ω	50	2 V.ms/ 20 kHz 1 V.ms/ 100 kHz	150 V/ 20 kHz 150 V/ 100 kHz	1..20 Ω / 1%
74544	500	100 A	6.5 Ω	1250	10 V.ms/ 50 Hz	0.7 V/ 50Hz/ 100 A 1.2 V/ 50Hz/ 60 A	≤ 3 Ω / 1% / 100 A ≤ 10 Ω / 1% / 60 A
74547	1000	250 A	22 Ω	8000	100 V.ms/ 50 Hz	15 V/ 50 Hz/ 250 A	≤ 50 Ω / 1% / 250 A

Data applies for one primary turn (single passage of primary wire through toroid hole).
Sensitivity can be increased for lower currents by winding more than one turn.

74541/ 74544/ 74547 FASTON Connectors (4.8 x 0.8)



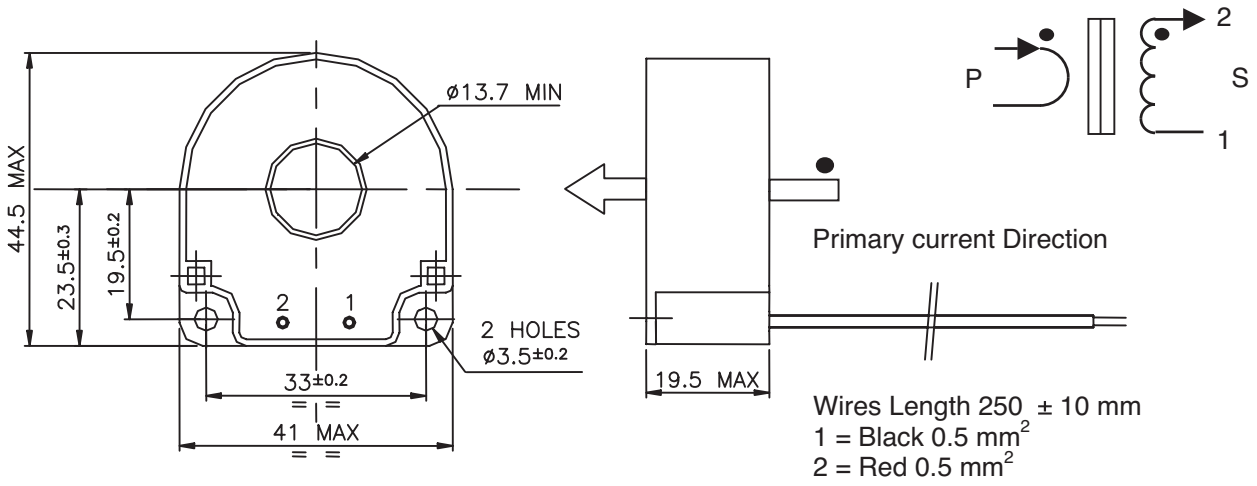
*design on request at myrra.com

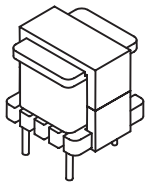


MYRRA Part N°	Sec. Turns	Max Pri. Current A rms	Rsec. Ω max	Lsec. mH min	Pulse Vsec x t max @ Frequency	Sine Vsec max @ Frequency	Typical Load/ Accuracy/ Current
74542	100	200 A	0.35 Ω	50	2 V.ms/ 20 kHz 1 V.ms/ 100 kHz	150 V/ 20 kHz 150 V/ 100 kHz	1..20 Ω / 1%
74545	500	100 A	6.5 Ω	1250	10 V.ms/ 50 Hz	0.7 V/ 50Hz/ 100 A 1.2 V/ 50Hz/ 60 A	≤ 3 Ω / 1% / 100 A ≤ 10 Ω / 1% / 60 A
74548	1000	250 A	22 Ω	8000	100 V.ms/ 50 Hz	15 V/ 50 Hz/ 250 A	≤ 50 Ω / 1% / 250 A

Data applies for one primary turn (single passage of primary wire through toroid hole).
Sensitivity can be increased for lower currents by winding more than one turn.

74542/ 74545/ 74548 Wires type



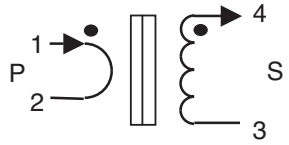


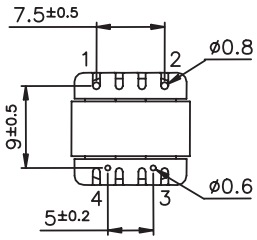
FOR SWITCH MODE POWER SUPPLIES - 20 to 150 kHz								
MYRRA Part N°	Ratio	Max Pri. Current A rms	Rsec. Ω max	Lsec. mH min	Pulse Vsec x t max	Sine Vsec rms max	Typical Load/ Accuracy/ Current	Insulation Voltage P/ S
74550	1/ 100	10	2.3	6	250 V.µs	40 Vrms	10 – 100 Ω / 1% / 10 A	1500 V

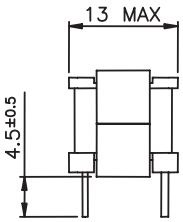
SAFETY :

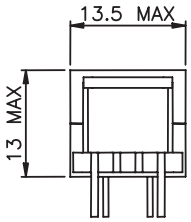
This product is only composed of UL approved materials.
This product has a construction conform to CEI950, CEI335, CEI61558 for functional insulation

74550



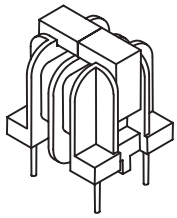


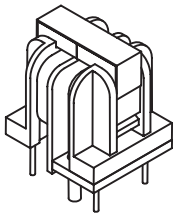




PCB drill @ Ø 1 & 1.3 mm

*design on request at myrra.com





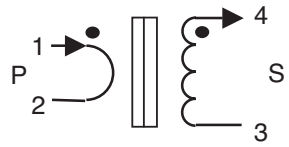
FOR SWITCH MODE POWER SUPPLIES - 20 to 150 kHz								
MYRRA Part N°	Ratio	Max Pri. Current A rms	Rsec. Ω max	Lsec. mH min	Pulse Vsec x t max	Sine Vsec rms max	Typical Load/ Accuracy/ Current	Insulation Voltage P/ S
74560	1/ 100	10	1.1	12	300 V.µs	25 Vrms	5 – 50 Ω / 1% / 10 A	4000 V
74562	1/ 100	25	1.1	12	300 V.µs	25 Vrms	5 – 50 Ω / 1% / 25 A	4000 V

FOR MAINS AC CURRENT MEASUREMENT - 50 to 400 Hz								
MYRRA Part N°	Ratio	Max Pri. Current A rms	Rsec. Ω max	Lsec. mH min	Pulse Vsec x t max	Sine Vsec rms max	Typical Load/ Accuracy/ Current	Insulation Voltage P/ S
74561	1/ 2000	8 A	400	4.5 H	5 V.ms	1 Vrms	≤ 100 Ω / 2% / 6 A	4000 V

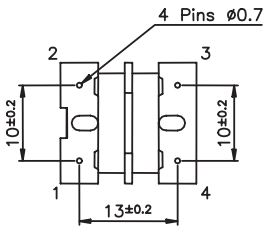
SAFETY :

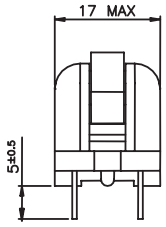
These products are only composed of UL approved materials.
These products have a construction conform to CEI950, CEI335, CEI61558 for Reinforced insulation
74560, 74561 : 8 mm creepage distance
74562 : 6 mm creepage distance

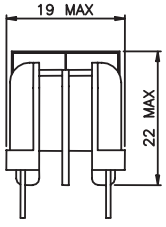
74560/ 74561



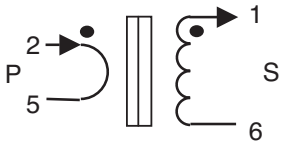
PCB drill @ Ø 1.1 & 2.2 mm



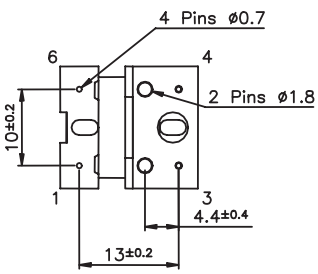


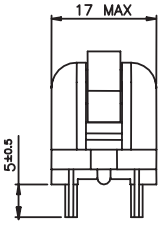


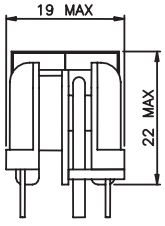
74562

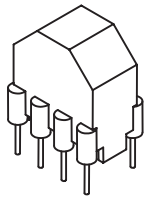


PCB drill @ Ø 1.1 & 2.2 mm







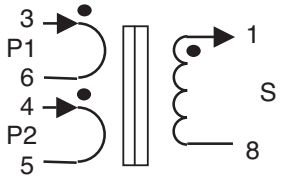


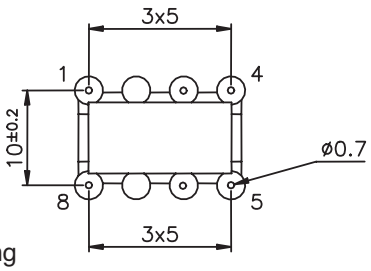
FOR SWITCH MODE POWER SUPPLIES - 20 to 150 kHz								
MYRRA Part N°	Ratio	Max Pri. Current A rms	Rsec. Ω max	Lsec. mH min	Pulse Vsec x t max	Sine Vsec rms max	Typical Load/ Accuracy/ Current	Insulation Voltage P/ S
74570	1/1/50	20 A parallel 10 A serie	0.32	9	150 V.µs	12 Vrms	5 – 25 Ω / 1% / 20 A	4000 V

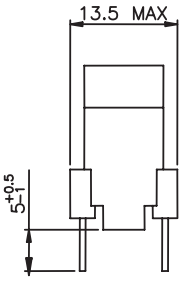
SAFETY :

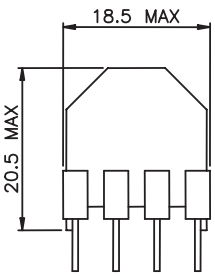
This product is only composed of UL approved materials.
This product has a construction conform to CEI950, CEI335, CEI61558 for Reinforced insulation (8 mm creepage distance)

74570





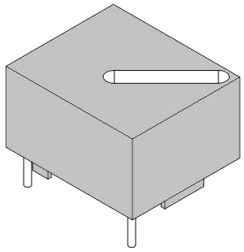




Pins 2 & 7 removed for locating PCB drill @ Ø 1.1mm

*design on request at myrra.com

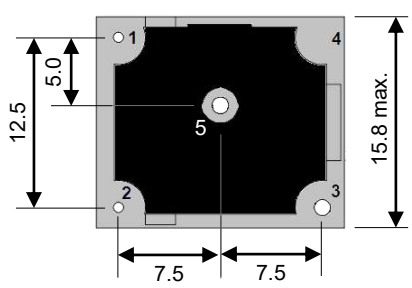
NEW

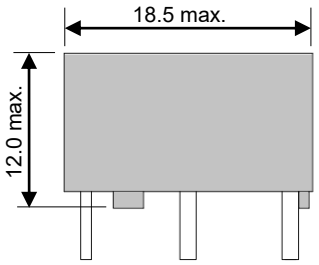


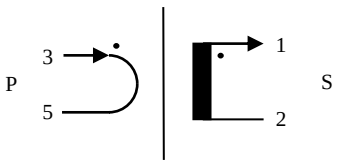
- Primary / Secondary Insulation ≥ 4000V
- PD2 - Creepage distances ≥ 6mm
- Construction conforms to IEC60335-1, IEC60950-1, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials

MYRRA Part N°	Sec. Turns	Ip max. (Arms)	Rsec. Ω max	Lsec. mH min	E*Tmax. (V.µSec.)	Recommended frequency range	Typical Load/ Accuracy/ Current
74505	50	25	0.26 Ω	4.7	175 V.µS 20 – 200 kHz	25 ~ 500 kHz	20 Ω / 1%
74506	100	25	1.2 Ω	18	350 V.µS 20 – 100 kHz	10 ~ 250 kHz	20 Ω / 1%
74507	200	25	4.5 Ω	75	700 V.µS 20 – 100 kHz	5 ~ 120 kHz	40 Ω / 1%
74508	500	25	16 Ω	390	2.5 V.ms 50 Hz	1 ~ 20 kHz	50 Ω / 1%
74509	1000	25	45 Ω	1400	2.0 V.ms 50 Hz	0.1 ~ 10 kHz	20 Ω / 1%

(*) Lsec : @ 1 kHz – 0.1 V – 25 °C for 74580 to 74582
@ 50 Hz – 0.1 V – 25 °C for 74583 and 74584
E*T : Rb x (Ip / Ns) / (2 x F) with F= frequency (Hz) and Rb = Load resistance (Ω)

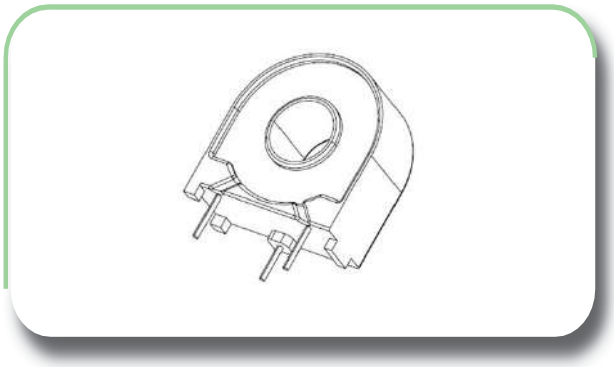






PIN 4 Removed
PCB Drilling Diameter = 1.1mm

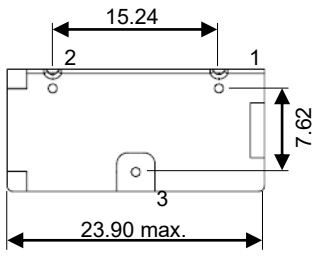
NEW

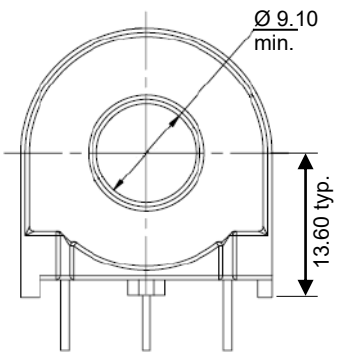


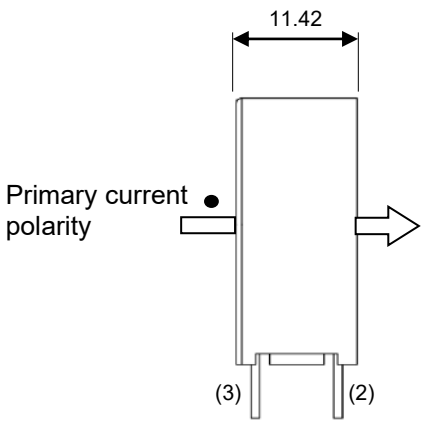
- Primary / Secondary Insulation ≥ 4000V
- Exclusively uses UL94-V0 listed materials

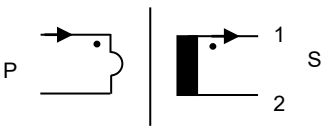
MYRRA Part N°	Turns ratio (P/S)	Ip max. (Arms)	Rsec. Ω max	Lsec. mH min	E*Tmax. (V.µSec.)	Recommended frequency range	Typical Load/ Accuracy/ Current
74580	1/50	60	0.3 Ω	5.5 @1kHz – 0.1V – 25°C	390	20 ~ 200 kHz	13 Ω / 1%
74581	1/100	80	0.7 Ω	22.3 @1kHz – 0.1V – 25°C	800	20 ~ 100 kHz	40 Ω / 1%
74582	1/200	60	5.2 Ω	95.2 @1kHz – 0.1V – 25°C	1500	20 ~ 100 kHz	200 Ω / 1%
74583	1/1000	80	30 Ω	3500 @1kHz – 0.1V – 25°C	3.45 Vrms (Sine)	50 kHz	≤ 12.5 Ω / 1%
74584	1/2000	100	145 Ω	16000 @1kHz – 0.1V – 25°C	7.7 Vrms (Sine)	50 kHz	≤ 25 Ω / 1%

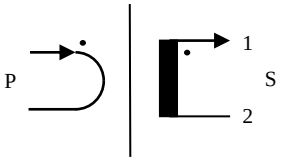
(*) Lsec : @ 1 kHz – 0.1 V – 25 °C for 74580 to 74582
@ 50 Hz – 0.1 V – 25 °C for 74583 and 74584
E*T : Rb x (Ip / Ns) / (2 x F) with F= frequency (Hz) and Rb = Load resistance (Ω)

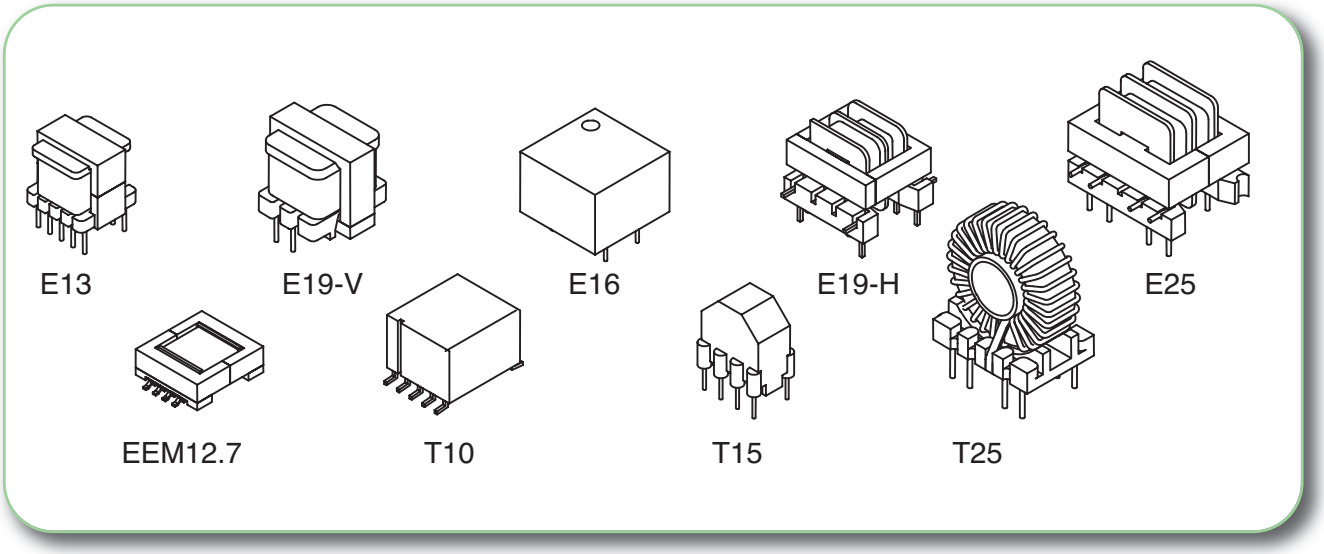






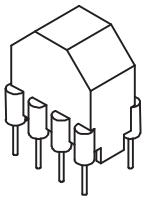




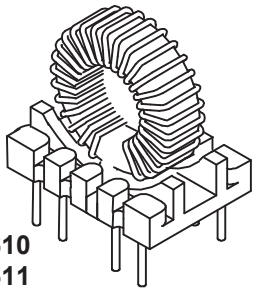


To be used for MOSFET or IGBT Drive, SCR triggering, DC/DC power conversion, Voltage isolation.

MYRRA Part N°	SIZE	Ratio	
74600	Size T15	Ratio 1 / 1 / 1	Low stray inductance
74610	Size T25	Ratio 1 / 1 / 1	Low stray inductance
74611	Size T25	Ratio 1 / 1 / 1	Low stray inductance
74620	Size E19-H	Ratio 1 / 1 / 1	Low coupling capacitance
74621	Size E19-H	Ratio 3 / 1 / 1	Low coupling capacitance
74630	Size E25	Ratio 1 / 1 / 1	Low coupling capacitance
74631	Size E25	Ratio 3 / 1 / 1	Low coupling capacitance
74640	Size E19-V	Ratio 1 / 5	For voltage step-up
74641	Size E19-V	Ratio 1 / 10	For voltage step-up
74650	Size E13	Ratio 1 / 1 / 1	Small size
74710	Size E16	Ratio 1 / 1	Low coupling capacitance
74660	Size EEM12.7	Ratio 1CT / 1.3CT	SMD
74661	Size EEM12.7	Ratio 1CT / 1CT	SMD, for DC/DC converter
74670	Size T10	Ratio 1CT / 1.3	SMD, Low stray inductance



74600

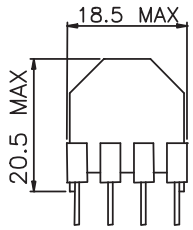


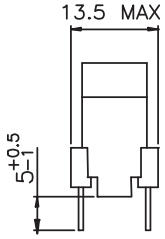
74610
74611

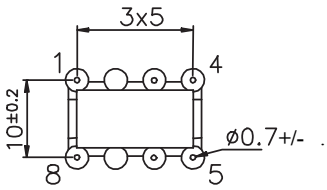
MYRRA Part N°	Ratio P/S1/S2	L pri. +/-30%	Current / winding Arms max	Resistance / winding Ω max	Pulse E x t V.µs max	square V / kHz max	C P/S pF max	Lleak P/S max	Insulation Voltage	
									P/ S	S1/S2
74600	1 / 1 / 1	4 – 8	0.6	0.35	150 V.µs	0.4	120 pF	1.0 µH	4 kV	4 kV
74610	1 / 1 / 1	0.6 – 1.2	1.7	0.07	150 V.µs	0.4	35 pF	0.6 µH	4 kV	4 kV
74611	1 / 1 / 1	2.5 - 5	1.2	0.14	300 V.µs	0.8	90 pF	1.2 µH	4 kV	4 kV

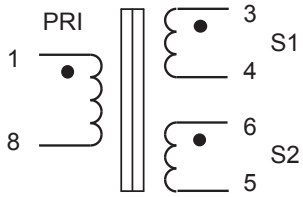
- Toroid core gives best coupling, lowest leakage inductance, fast rise time.
- Pulse (E.t rating) is given for bipolar (symetrical) pulse. Value is reduced for unipolar pulse. **SAFETY :**
- These products are only composed of UL94-V0 approved materials.
- Insulation test voltage : 4000 Vrms
- This product has a construction conform to IEC60335-1, IEC60950-1, IEC61558-2-16 for Reinforced insulation (8 mm creepage distance)

74600 Size T15



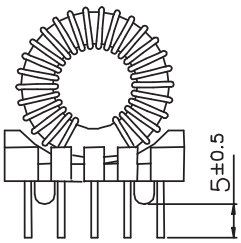


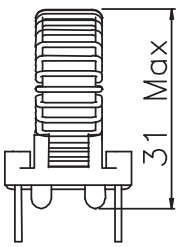


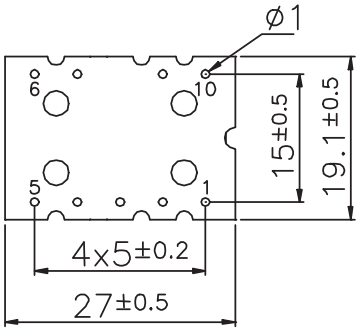


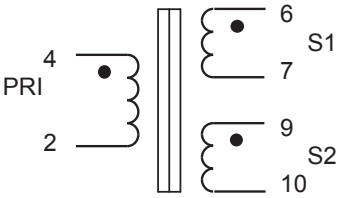
Pins 2 & 7 removed for locating PCB drill @ Ø 1.1mm Weight ≈ 6 g

74610 - 74611 Size T25



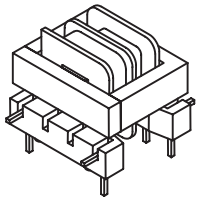




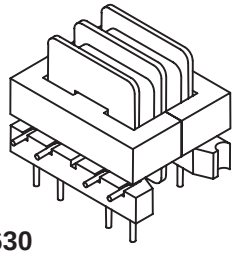


Pin 8 removed for locating PCB drill @ Ø 1.3mm Weight ≈ 18 g

*design on request at myrra.com



74620
74621



74630
74631

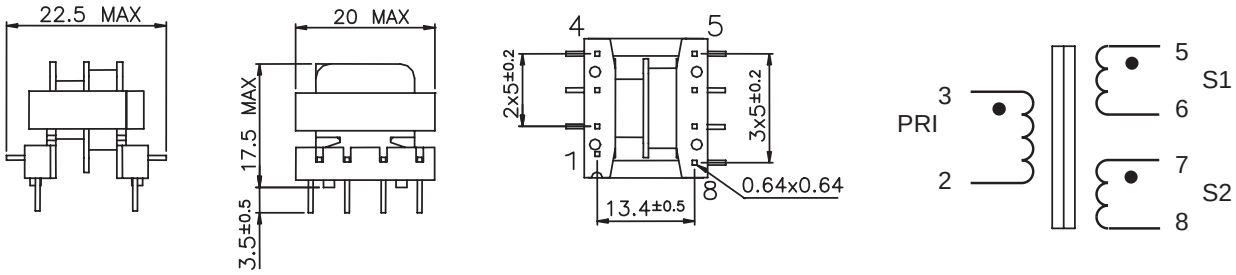
MYRRA Part N°	Ratio P/S1/S2	L pri. +/-30%	Current / winding Arms max	Resistance / winding Ω max	Pulse E x t V.µs max	square V / kHz max	C P/S pF max	Lleak P/S max	Insulation Voltage	
									P/ S	S1/S2
74620	1 / 1 / 1	3.2 mH	0.5	1.0	350 V.µs	0.6	5 pF	70 µH	2.5 kV	1.5 kV
74621	3 / 1 / 1	17 mH	0.3	2.0	800 V.µs	1.5	5 pF	400 µH	2.5 kV	1.5 kV
74630	1 / 1 / 1	3 mH	1	0.4	500 V.µs	0.8	7 pF	60 µH	2.5 kV	1.5 kV
74631	3 / 1 / 1	15.5 mH	0.45	0.8	1000 V.µs	1.7	7 pF	300 µH	2.5 kV	1.5 kV

- Principally dedicated to SCR triggering
- Designed for minimum coupling capacitance

SAFETY :

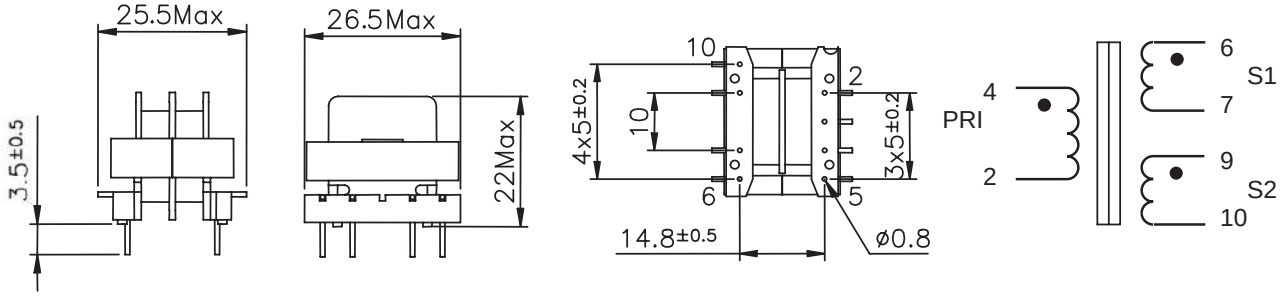
These products are only composed of UL-V0 approved materials.

74620 - 74621 Size E19-H

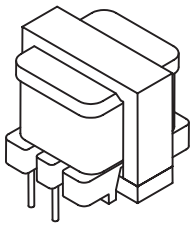


Pin 1 removed for locating PCB drill @ Ø 1.3mm Weight ≈ 12 g

74630 – 74631 Size E25



Pins 1 & 8 removed for locating PCB drill @ Ø 1.3mm Weight ≈ 20 g

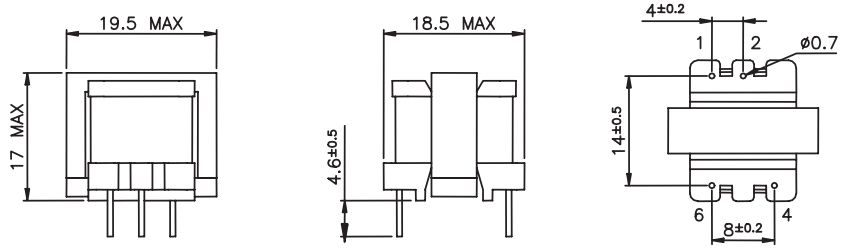


MYRRA Part N°	Ratio P/S	L pri. +/-30%	Current Arms max	Resistance Ω max	Pulse Vsec . t max	Sine Vsec. max	Insulation Voltage P/ S
74640	1 / 5	11 mH	Pri : 0.5 Sec : 0.1	Pri : 1.0 Sec : 31	16 V.ms	4 Vrms / 50 Hz 50 Vrms / 5 kHz	1500
74641	1 / 10	11 mH	Pri : 0.4 Sec : 0.04	Pri : 1.8 Sec : 80 Ω	33 V.ms	8 Vrms / 50 Hz 100 Vrms / 5 kHz	1500

SAFETY :

• These products are only composed of UL-V0 approved materials.

74640-74641 Size E19-V

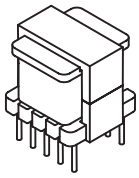


Pins 3 & 5 removed for locating

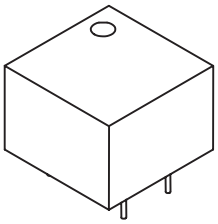
PCB drill @ Ø 1.1mm

Weight ≈ 14 g

*design on request at myrra.com



74650



74710

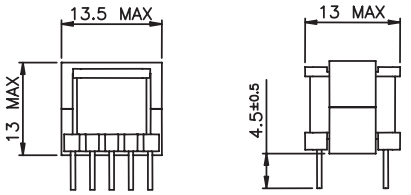
MYRRA Part N°	Ratio P/S1/S2	L pri.	Current / winding Arms max	Resistance / winding Ω max	Pulse E x t V.µs max	square V / kHz max	C P/S pF max	Lleak P/S max	Insulation Voltage	
									P/ S	S1/S2
74650	1 / 1 / 1	500 µH +/-30%	0.6	0.28	120 V.µs	20V/ 100kHz	12 pF	2 µH	1.5 kV	1.5 kV
74710	1 / 1	2 mH +/-40%	0.6	0.6	300 V.µs	50V/ 100kHz	6 pF	44 µH	4 kV	

- 74650 is principally designed for Mosfet drive in SMPS (Forward or Bridge converters)
- 74710 is principally designed for SCR Triggering

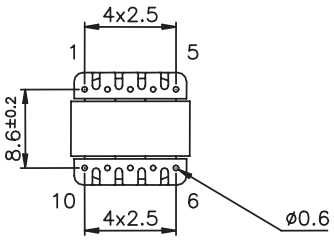
SAFETY :

These products are only composed of UL-V0 approved materials.
The product 74710 has a construction conform to CEI950, CEI335, CEI61558 for Reinforced insulation (8 mm creepage distance)

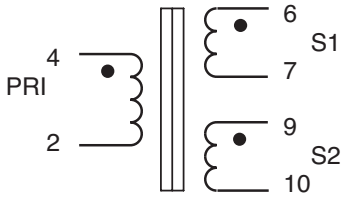
74650 Size E13



Pin 8 removed for locating

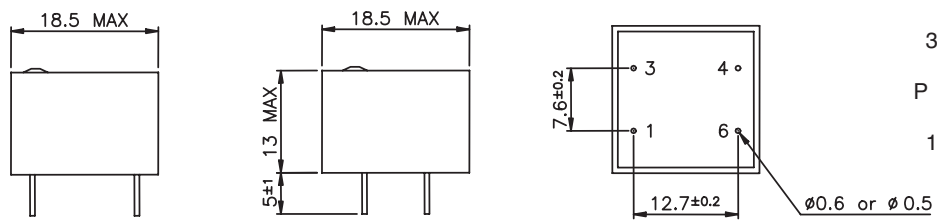


PCB drill @ Ø 1.1mm



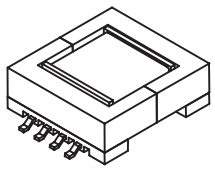
Weight ≈ 4 g

74710 Size E16

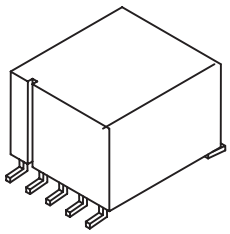


PCB drill @ Ø 1.1mm

Weight ≈ 8 g



74660 - 74661



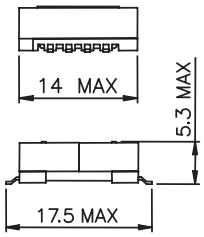
74670

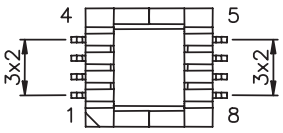
MYRRA Part N°	Ratio P/S	L pri.	Current / winding max	Resistance / winding Ω max	Pulse E x t max P1 or P2	square V / kHz max P1 or P2	C P/S pF max	Lleak P/S max	Insulation Voltage P/ S
74660	1+1 / 1.3+1.3	240 µH +/-30%	0.2 Arms	0.9	50 V.µs	15V 100 – 500kHz	20 pF	0.35 µH	0.5 kV
74661	1+1 / 1+1	10 µH +/-10%	3 Apeak 0.5 Arms	0.2	30 V.µs	0.05 V / kHz 100 – 400kHz	20 pF	0.2 µH	0.5 kV
74670	1+1 /1.3	220 µH +/-30%	0.4 Arms	0.25	15 V.µs	0.03 V / kHz 100 – 500kHz	12 pF	0.4 µH	4 kV

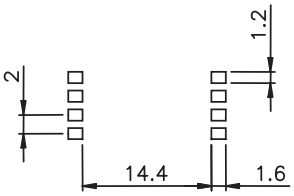
- 74660 can be used in association with MAXIM MAX250 or MAX253
- 74661 can be used in association with LINEAR TECHNOLOGY LT1424
- 74660 can be used in association with MAXIM MAX845

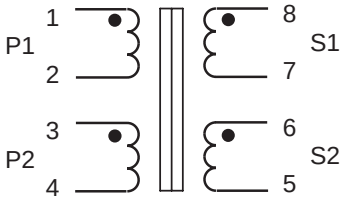
SAFETY :
These products are only composed of UL-V0 approved materials.

74660 – 74661 Size EEM12.7



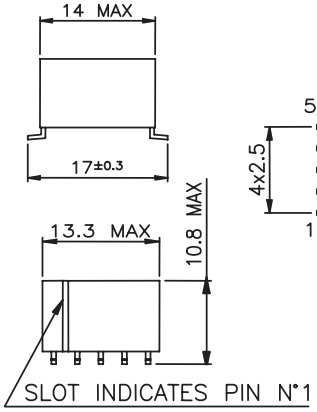


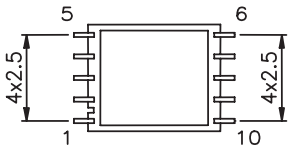


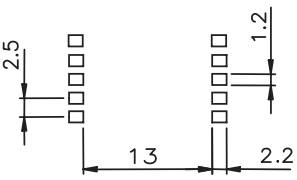


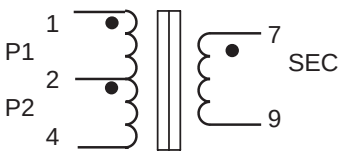
Weight ≈ 3 g

74670 Size T10



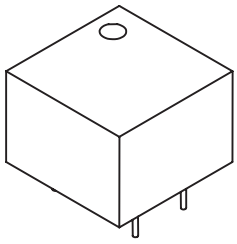


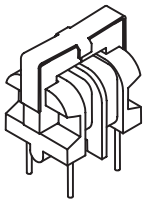


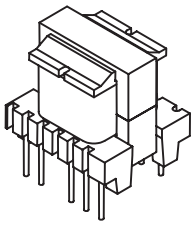


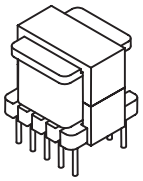
Weight ≈ 4 g

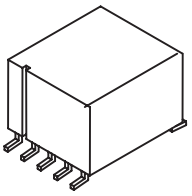
*design on request at myrra.com


74710 - 74716 - 74717


74711


74712

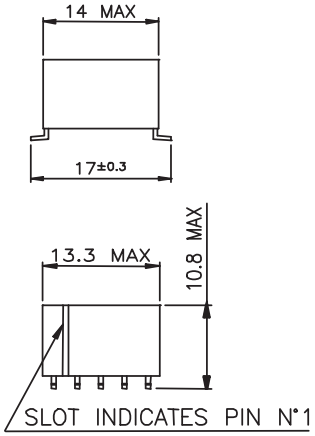

74713

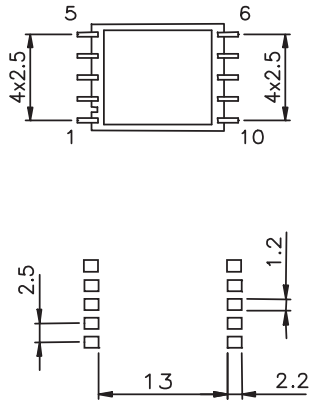

74714 - 74715

- Designed for coupling signals to power line
- Adapted for use with Modem Circuits : **ST7537, ST7538, TDA5051 or IC/SS**

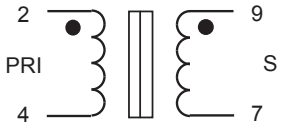
MYRRA Part N°	Inductance (µH)	Leakage Inductance (µH)	Resistance per winding P / S (max)	Frequency range	Turns ratio P / S	Max Sec. current (mA rms) (50 - 60 Hz)	Insulation (Vrms)	Size
74714	1300 +/-40 % (2 – 4)	< 0.5	0.2 Ω / 0.2 Ω	10 – 200kHz	1 / 1	400	5500	T10-SMD
74715	3.0 +/-25 % (7 – 9)	< 0.1	0.06 Ω / 0.1 Ω	1 – 20 MHz	2 / 1+1	200	4000	T10-SMD

74714 - 74715
Reinforced insulation, creepage distance > 8 mm

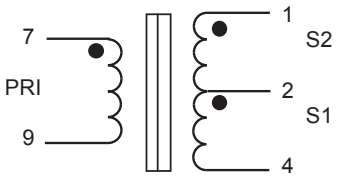




74714



74715

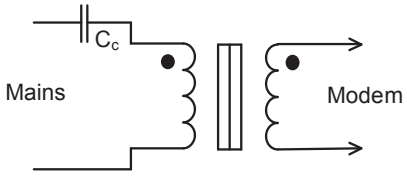


MYRRA P/N	Inductance (µH)	Leakage Inductance (µH)	Resistance per winding P / S (max)	Frequency range	Turns ratio P / S	Max Sec. current (mA rms) (50 - 60 Hz)	Insulation (Vrms)	Size
74710	2000 +/-40 % (1 – 3)	80 +/-7%	0.6 Ω / 0.6 Ω	10 – 450kHz	1 / 1	10	4000	EF16-H-4P
74711	2900 +/-40% (1 – 2)	44 +/-7%	1 Ω / 1 Ω	10 – 200kHz	1 / 1	4	1500	U9.8-4P
74716	45000 +/- 40 % (3 - 1)	1500 +/-10 %	12 Ω / 14 Ω	10 - 200kHz	1/1.15	4	4000	EF 16 H - 5P
74717	400 +/- 40 % (3 - 1)	14.4 +/- 10 %	0.3 Ω / 0.5 Ω	20 - 450kHz	1/1.67	40	4000	EF 16 H - 5P

- **74710 - 74711 - 74716 – 74717**

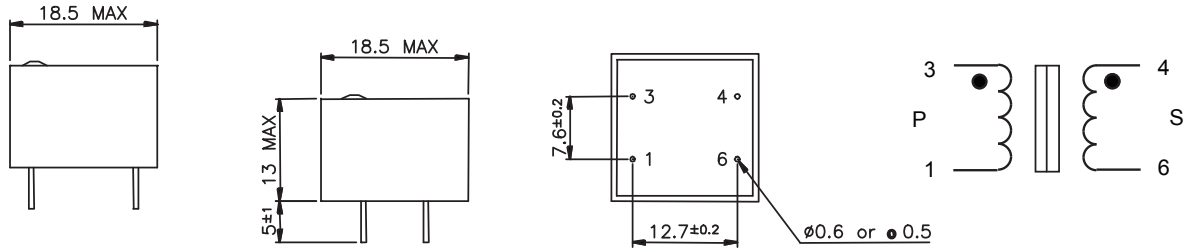
Typical application :

Designed for resonance of series coupling capacitor and the transformer leakage inductance.

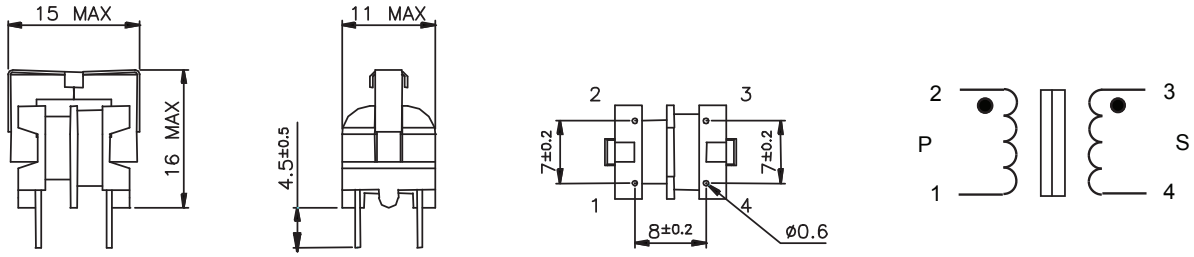


MYRRA P/N	Series Resonance Frequency (kHz)	Mains Coupling capacitance (nF)
74710	132.5	22
74711	132.5	33
74716	50	6.8
74717	40 - 90	470

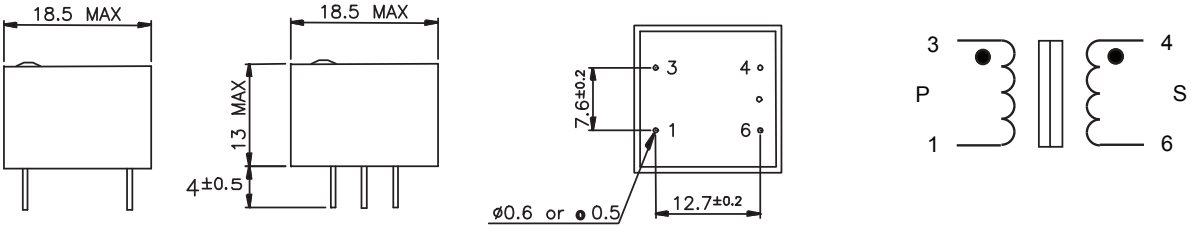
74710 Reinforced insulation, creepage distance > 8 mm



74711 Functional insulation



74716 - 74717 Reinforced insulation, creepage distance > 8 mm



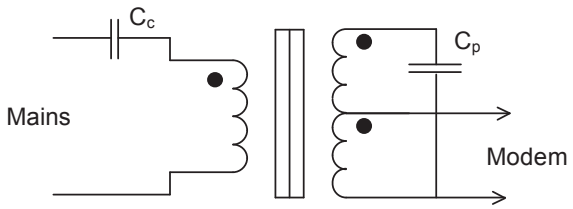
*design on request at myrra.com

MYRRA Part N°	Inductance (µH)	Leakage Inductance (µH)	Resistance per winding P / S (max)	Frequency range	Turns ratio P / S	Max Sec. current (mA rms) (50 - 60 Hz)	Insulation (Vrms)	Size
74712	212 +/-10 % (2 – 5)	< 5 (2 – 5)	0.8 Ω / 0.04 Ω	10kHz – 1MHz	5+1 / 1	500	4000	E16-V-10P
74713	144 +/-10 % (2 – 5)	< 5	0.5 Ω / 0.5 Ω	10 – 450kHz	5+1 / 5+1	200	1500	E13-V-10P

- **74712 - 74713**

Typical application :

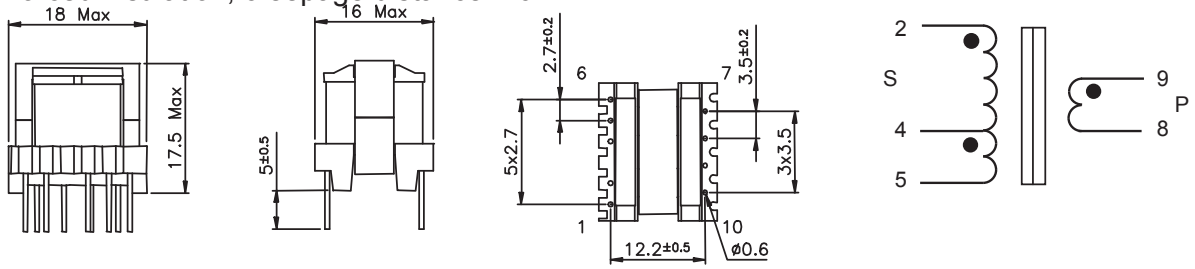
Designed for resonance of parallel capacitor with the primary magnetizing inductance.



MYRRA Part N°	Parallels Resonance Frequency (kHz)	Mains Coupling capacitor(nF)	Parallel capacitor (nF)
74712	132.5	33	6.8
74713	132.5	33	10

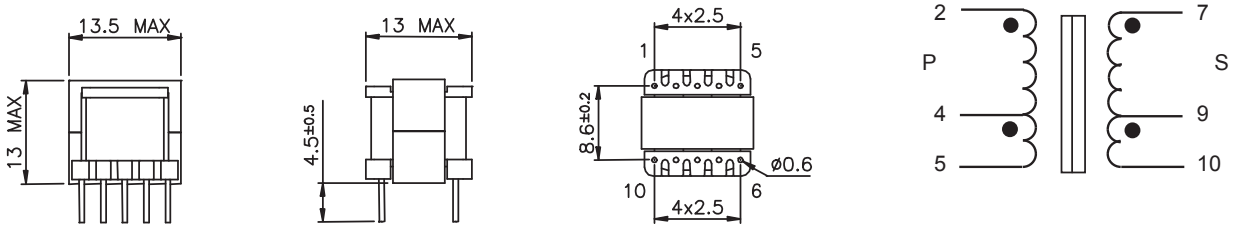
74712

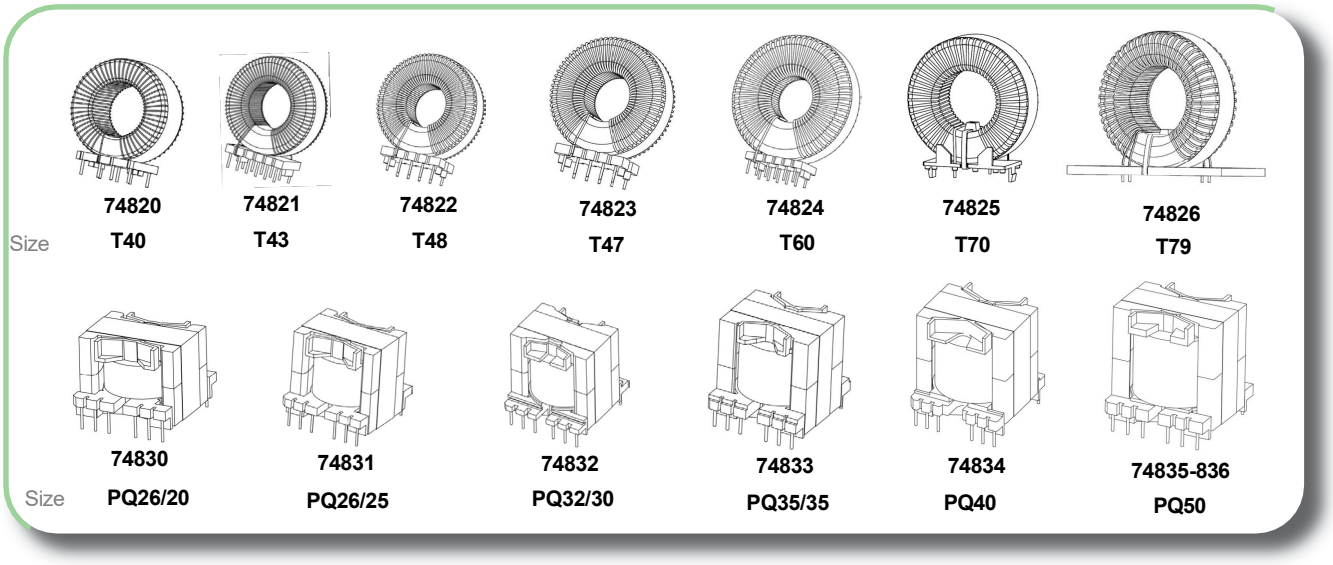
Reinforced insulation, creepage distance > 6 mm



74713

Functional insulation





TOROIDAL – THROUGH HOLES

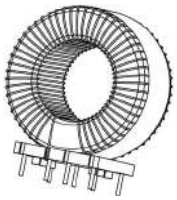
MYRRA Part N°	SIZE	Output Range
74820	Size T40	100W – 200W
74821	Size T43	150W – 310W
74822	Size T48	220W – 460W
74823	Size T47	330W – 600W
74824	Size T60	680W – 900W
74825	Size T70	680W – 1500W
74826	Size T79	1000W – 2000W

LINEAR – THROUGH HOLES

MYRRA Part N°	SIZE	Output Range
74830	Size PQ26/20	100W – 200W
74831	Size PQ26/25	150W – 310W
74832	Size PQ32/30	220W – 460W
74833	Size PQ35/35	330W – 600W
74834	Size PQ40	680W – 900W
74835	Size PQ50	680W – 1500W
74836	Size PQ50	1000W – 2000W

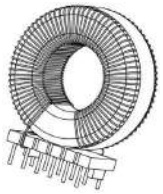
*design on request at myrra.com

NEW



74820

Size T40



74821

T43

- Operating temperature: -40°C / +120°C (incl. temperature rise)
- Exclusively uses UL94-V0 listed materials

Typical use	Outputs (min/max)	Input Voltage
74820	100 W 200W	120 VAC 230 VAC
74821	150 W 310 W	120 VAC 230 VAC

MYRRA Part N°	Max Output power	Inductance L0 +/- 10%	Inductance @Ipk	Current	Saturation Current	Resistance	Frequency Resistance
Windings		L	L	L	L	L	L
74820	200 W	2.6 mH	2.12 mH	1.1 Arms max.	3 Apk max.	1.9 Ω max.	650 kHz min.
74821	310 W	1.74 mH	1.38 mH	1.7 Arms max.	4 Apk max.	0.92 Ω max.	820 kHz min.

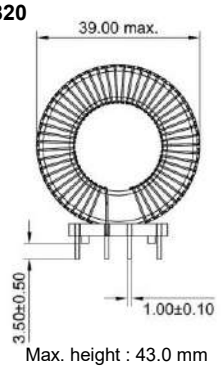
Rated currents (Arms) will give temperature rising of 40K and for 100 kHz ripple Ipk

Saturation currents (Apk) are stated for a maximum inductance drop of 35% from L0

Hi-pot : L/Core – 1500 Vrms @50Hz

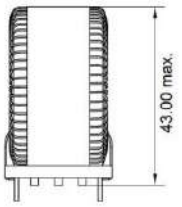
E.t product : 1000 V.µs max. (Windings L)

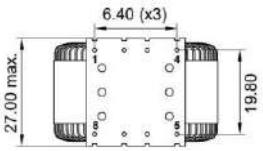
74820



Max. height : 43.0 mm

Pins : ∅ 1.0 +/- 0.05 mm



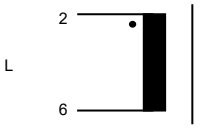


General tolerances: +/- 0.5 mm

Pin missing : ---

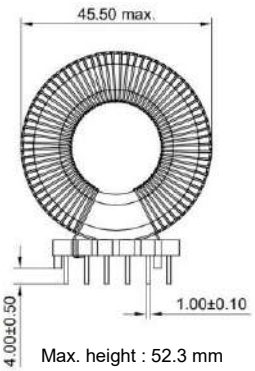
Pins row and pitch tolerances: +/- 0.5 mm

Pins length: 4.0 +/- 0.5 mm



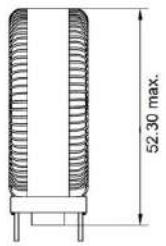
74820

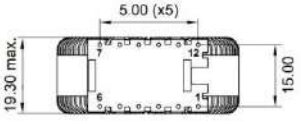
74821



Max. height : 52.3 mm

Pins : ∅1.0 +/- 0.05 mm



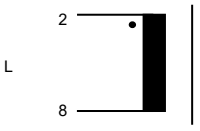


General tolerances: +/- 0.5 mm

Pin missing : ---

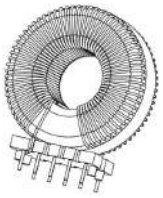
Pins row and pitch tolerances: +/- 0.5 mm

Pins length: 4.0 +/- 0.5 mm



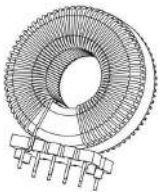
74821

NEW



74822

Size **T48**



74823

T47

- Operating temperature: -40°C / +120°C (incl. temperature rise)
- Exclusively uses UL94-V0 listed materials

Typical use	Outputs (min/max)	Input Voltage
74822	220 W 460W	120 VAC 230 VAC
74823	330 W 600 W	120 VAC 230 VAC

MYRRA Part N°	Max Output power	Inductance L0 +/- 10%	Inductance @Ipk	Current	Saturation Current	Resistance	Frequency Resistance
Windings		L	L	L	L	L	L
74822	460 W	1.26 mH	967 µH	2.55 Arms max.	5.4 Apk max.	485 mΩ max.	820 kHz min.
74823	600 W	930 µH	696 µH	3.3 Arms max.	6 Apk max.	230 mΩ max.	900 kHz min.

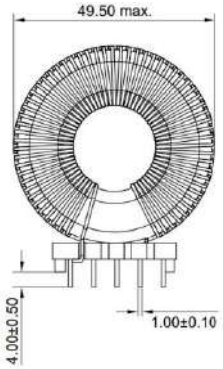
Rated currents (Arms) will give temperature rising of 40K and for 100 kHz ripple Ipk

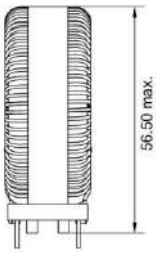
Saturation currents (Apk) are stated for a maximum inductance drop of 35% from L0

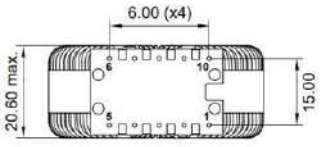
Hi-pot : L/Core – 1500 Vrms @50Hz

E.t product : 1000 V.µs max. (Windings L)

74822







General tolerances: +/- 0.5 mm

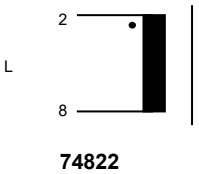
Pin missing : ---

Max. height : 56.5 mm

Pins : ∅1.0 +/- 0.05 mm

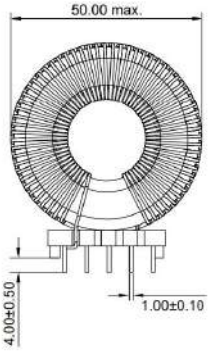
Pins row and pitch tolerances: +/- 0.5 mm

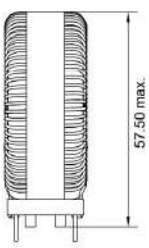
Pins length: 4.0 +/- 0.5 mm

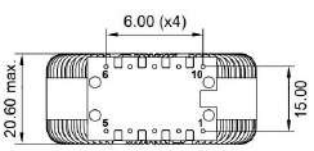


74822

74823







General tolerances: +/- 0.5 mm

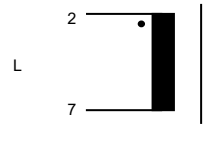
Pin missing : ---

Max. height : 57.5 mm

Pins : ∅1.0 +/- 0.05 mm

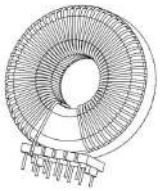
Pins row and pitch tolerances: +/- 0.5 mm

Pins length: 4.0 +/- 0.5 mm



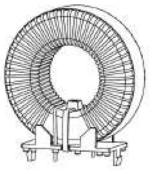
74823

NEW



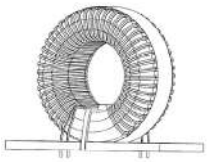
74824

Size **T60**



74825

T70



74826

T79

- Operating temperature: -40°C / +120°C (incl. temperature rise)
- Exclusively uses UL94-V0 listed materials

Typical use	Outputs (min/max)		Input Voltage
74824 74825	680 W	900 W 1500 W	120 VAC 230 VAC
74826	1000 W 2000 W		120 VAC 230 VAC

MYRRA Part N°	Max Output power	Inductance L0 +/- 10%	Inductance @ Ipk	Current	Saturation Current	Resistance	Frequency Resistance
Windings		L	L	L	L	L	L
74824	900 W	590 µH	415 µH	5 Arms max.	10 Apk max.	1.2 Ω max.	1.5 MHz min.
74825	1500 W	416 µH	300 µH	8.3 Arms max.	15.5 Apk max.	54 mΩ max.	1.5 MHz min.
74826	2000 W	300 µH	222 µH	11 Arms max.	21.5 Apk max.	44 mΩ max.	2.0 MHz min.

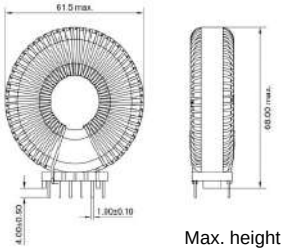
Rated currents (Arms) will give temperature rising of 40K and for 100 kHz ripple = Ipk

Saturation currents (Apk) are stated for a maximum inductance drop of 20

Hi-pot : L/Core – 1500 Vrms @50Hz

E.t product : 1000 V.µs max. (Windings L)

74824

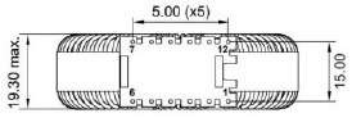


Max. height : 68.0 mm

Pins : ∅ 1.0 +/- 0.05 mm

Pins row and pitch tolerances: +/- 0.5 mm

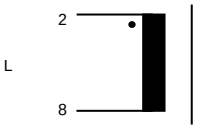
Pins length: 4.0 +/- 0.5 mm



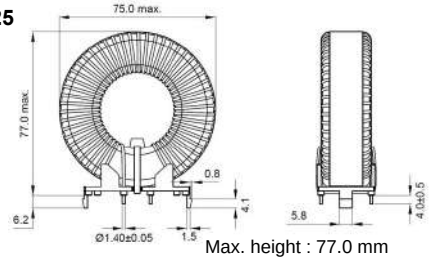
General tolerances: +/- 0.5 mm

Pin missing : ---

74824



74825

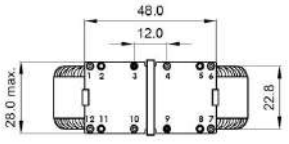


Max. height : 77.0 mm

Pins : ∅ 1.4 +/- 0.05 mm

Pins row and pitch tolerances: +/- 0.5 mm

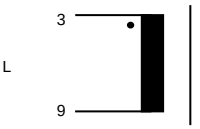
Pins length: 4.0 +/- 0.5 mm



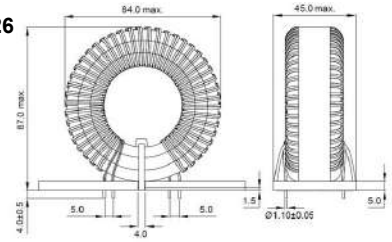
General tolerances: +/- 0.5 mm

Pin missing : ---

74825



74826

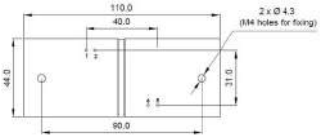


Max. height : 87.0 mm

Pins : ∅1.0 +/- 0.05 mm

Pins row and pitch tolerances: +/- 0.5 mm

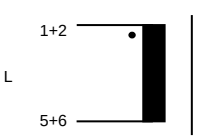
Pins length: 4.0 +/- 0.5 mm



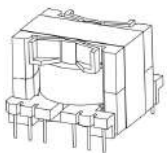
General tolerances: +/- 0.5 mm

Pin missing : ---

74826

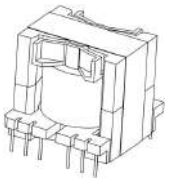


NEW



74830

Size PQ26/20



74831

PQ26/25

- Operating temperature: -40°C / +120°C (incl. temperature rise)
- Exclusively uses UL94-V0 listed materials

Typical use	Outputs	Input Voltage
74830	100 W 200 W	120 VAC 230 VAC
74831	150 W 310 W	120 VAC 230 VAC

MYRRA Part N°	Max Output power	Inductance L0 +/- 10%	Current	Saturation Current	Turns Ratio	Resistance
Windings		L	L	L	L : Aux	L : Aux
74830	200 W	2.1 mH	1.1 Arms max.	2.4 Apk max.	10.2 : 1	L : 760 Ω max. Aux. : 250 Ω / max.
74831	310 W	1.36 mH	1.7 Arms max.	3.6 Apk max.	11.2 : 1	L : 750 Ω max. Aux. : 380 Ω / max.

Rated currents (Arms) will give temperature rising of 40K and for 100 kHz ripple Ipk

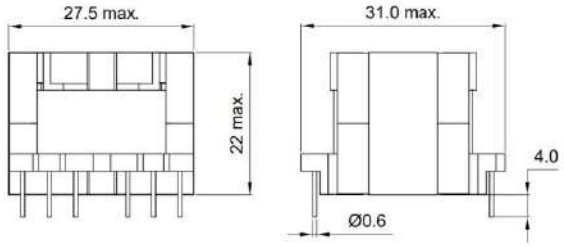
Saturation currents (Apk) are stated for a maximum inductance drop of 20

E.t product : 1000 V.µs max. (Windings L)

Polarity: 74830: 3 and 5 In phase
74831: 2 + 3 and 5 In phase

Hi-pot : L/Aux – 1500 Vrms @50Hz
L/Aux + Core – 1500 Vrms @50Hz

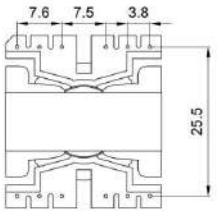
74830

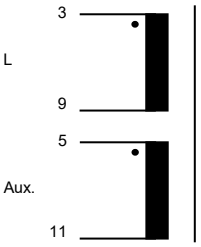


Max. height : 22.0 mm
Pins : ∅ +/- 0.05 mm

Pins row and pitch tolerances: +/- 0.5 mm
Pins length: 4.0 +/- 0.5 mm

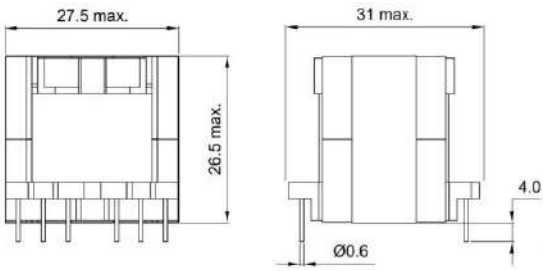
General tolerances: +/- 0.5 mm
Pin missing : ---





74830

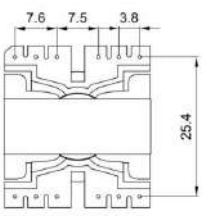
74831

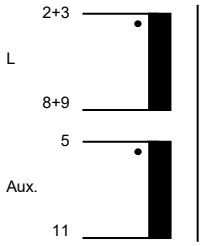


Max. height : 26.5 mm
Pins : ∅ +/- 0.05 mm

Pins row and pitch tolerances: +/- 0.5 mm
Pins length: 4.0 +/- 0.5 mm

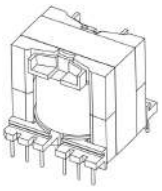
General tolerances: +/- 0.5 mm
Pin missing : ---





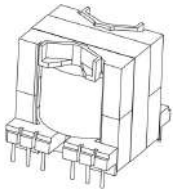
74831

NEW



74832

Size PQ32/30



74833

PQ35/35

- Operating temperature: -40°C / +120°C (incl. temperature rise)
- Exclusively uses UL94-V0 listed materials

Typical use	Outputs	Input Voltage
74832	220 W 460 W	120 VAC 230 VAC
74833	330 W 600 W	120 VAC 230 VAC

MYRRA Part N°	Max Output power	Inductance L0 +/- 10%	Current	Saturation Current	Turns Ratio	Resistance
Windings		L	L	L	L : Aux	L : Aux
74832	460 W	940 µH	2.55 Arms max.	5.2 Apk max.	10.6 : 1	L : 290 Ω max. Aux. : 110 Ω / max.
74833	600 W	650 µH	3.7 Arms max.	7.5 Apk max.	10.7 : 1	L : 140 Ω max. Aux. : 110 Ω / max.

Rated currents (Arms) will give temperature rising of 40K and for 100 kHz ripple Ipk

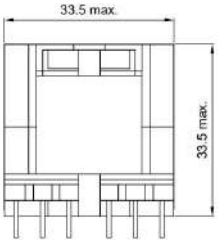
Saturation currents (Apk) are stated for a maximum inductance drop of 20

Polarity: 2 + 3 and 5 In phase

E.t product : 1000 V.µs max. (Windings L)

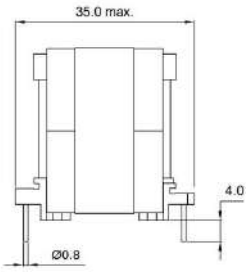
Hi-pot : L/Aux – 1500 Vrms @50Hz
L/Aux + Core – 1500 Vrms @50Hz

74832



Max. height : 33.5 mm

Pins : ∅ 0.8 +/- 0.05 mm

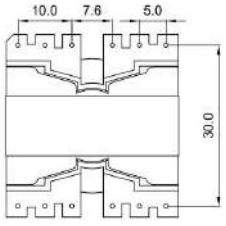


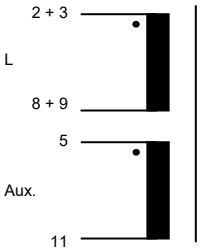
Pins row and pitch tolerances: +/- 0.5 mm

Pins length: 4.0 +/- 0.5 mm

General tolerances: +/- 0.5 mm

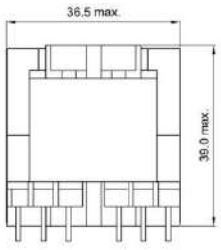
Pin missing : ---





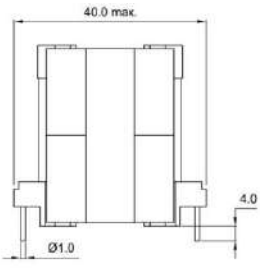
74832

74833



Max. height : 39.0 mm

Pins : ∅ +/- 0.05 mm

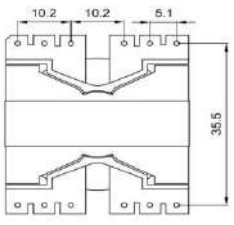


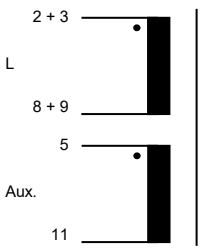
Pins row and pitch tolerances: +/- 0.5 mm

Pins length: 4.0 +/- 0.5 mm

General tolerances: +/- 0.5 mm

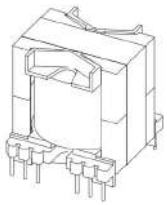
Pin missing : ---

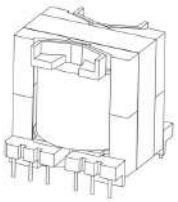




74833

NEW





Size

74834

PQ40

74835-36

PQ50

- Operating temperature: -40°C / +120°C (incl. temperature rise)
- Exclusively uses UL94-V0 listed materials

Typical use	Outputs (min/max)		Input Voltage
74834	680 W	900 W	120 VAC
74835		1500 W	230 VAC
74836	1000 W		120 VAC
	2000 W		230 VAC

MYRRA Part N°	Max Output power	Inductance L0 +/- 10%	Current	Saturation Current	Turns Ratio	Resistance
Windings		L	L	L	L : Aux	L : Aux
74834	900 W	420 µH	5 Arms max.	10 Apk max.	9.3 : 1	L : 90 Ω max. Aux. : 120 Ω / max.
74835	1500 W	300 µH	8.3 Arms max.	15 Apk max.	9.2 : 1	L : 60 Ω max. Aux. : 90 Ω / max.
74836	2000 W	220 µH	11 Arms max.	24 Apk max.	9.4 : 1	L : 35 Ω max. Aux. : 120 Ω / max.

Rated currents (Arms) will give temperature rising of 40K and for 100 kHz ripple Ipk

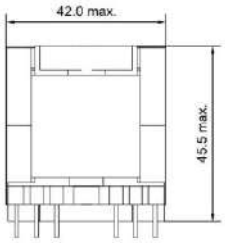
Saturation currents (Apk) are stated for a maximum inductance drop of 20

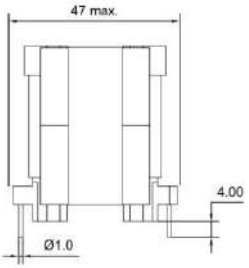
E.t product : 1000 V.µs max. (Windings L)

Polarity: 2 + 3 and 5 In phase

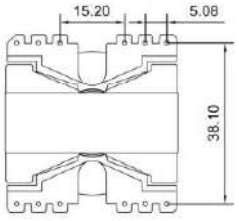
Hi-pot : L/Aux – 1500 Vrms @50Hz
L/Aux + Core – 1500 Vrms @50Hz

74834



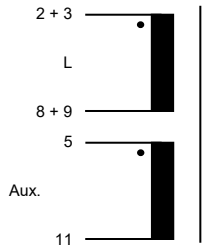


General tolerances: +/- 0.5 mm
Pin missing : ---



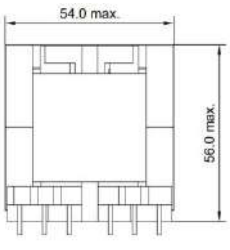
Max. height : 54.5 mm
Pins : ∅ 1.0 +/- 0.05 mm

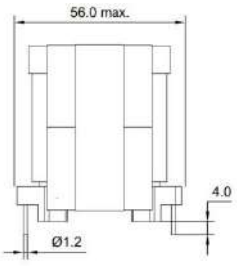
Pins row and pitch tolerances: +/- 0.5 mm
Pins length: 4.0 +/- 0.5 mm



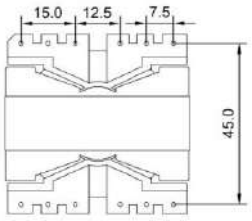
74834

74835-36



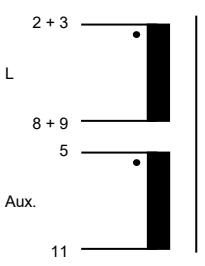


General tolerances: +/- 0.5 mm
Pin missing : ---



Max. height : 56.0 mm
Pins : ∅1.20 +/- 0.05 mm

Pins row and pitch tolerances: +/- 0.5 mm
Pins length: 4.0 +/- 0.5 mm



74835-36

THROUGH HOLES CHOKES

	Available sizes	Values	Applications
DC SERIES	***Drum Cores***		
	(Øx H) mm : 04x06 - 05x07 06 x07 - 07x08 - 07x10 08x0 9 - 09x12 - 10x13 - 11x12 -11x14 - 11x18 - 13x15	1 µH to 150 mH - 9.3 to 0.03 ADC	DC-DC converters ADSL-computers
RC SERIES	***Rod Chokes***		
	(ØxL) : 02x06 - 03x1 0 04x15 - 05x20 - 06x30	1 to 56 µH - 0.56 to 1.57 ADC	Power supply - Power amplifier
CMT SERIES	***Common Mode Toroids***		
	on request	on request	Power supply EMI suppression Wideband chokes

SURFACE MOUNT CHOKES

	Available sizes	Values	Applications
PI SERIES	***Power inductors***		
	32 - 42 - 43 - 53 - 54 - 73 75 - 104 - 1 05	1 to 820 µH 0,24 to 6.8 A	DC-DC converters DC-AC inverters Switching power supplies
SPI SERIES	***Shielded Power inductors***		
	7 3 - 74 - 124 -125 - 127	1.2 to 1000 µH 10.6 to 0.18 Arms	DC-DC converters DC-AC inverters Chargers

*design on request at myrra.com

POWER PRODUCTS TECHNOLOGIES

One of Myrra core competence is to provide customers with a high level of production technology combining know-how and experience over 40 years.

High-frequency transformers and chokes up to 100KW
Lamination 50Hz transformers and chokes up to 20KVA

- **Core :** Laminated steel for 50Hz
  Amorphous Core
  Nanocristalin Cores
  Powder Core / Sendust / Megaflux / High Flux
  Ferrites Core

- **Winding mono or multi-spindle**
Copper or Aluminum
  - Round emailed wire / Litz Wire / TIW
  - Flat wire (rectangular)
  - Foil : up to 400 mm width up to 10 layers simultaneously

- **Automatic or Manual soldering machine** (standard and ultrasonic)
- **Automatic welding machine up** to EI180
- **Varnish** Automatic under vacuum, until 1m3 volume
- **Potting** under vacuum / UL94V0 / EN45545
- **Automatic test system** No Load Test / Full Load Test / Computer controlled
- **Traceability**
  - Parts : Serial Numbers / Barcode
  - Materials : Manufacturer Program / C.O.C.
- **Insulation systems :** B, F, H classes
UL , IEC , CSA compliant

POWER PRODUCTS CONTROL WORKING STATION

A high level of control at all stages of production
100% of parts are tested

Labview software implementation on control station

- With automatic multiplexer MUX

All our test equipments are under calibration :

- Precision multimeters
- Micro-ohmmeters
- Oscilloscopes and Functions Generators
- Impulse Winding Tester 5kV
- Surge Test 12 kV
- HiPot Tester 12 kV
- RLC Impedance Meters, & 75 A DC Bias
- Power HiTester
- Pulse Generator / Saturation Tester

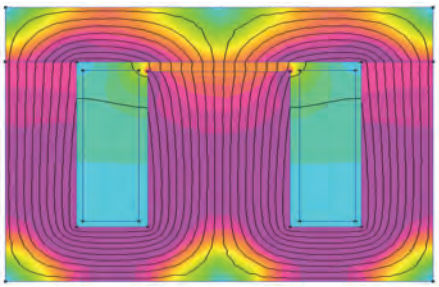
All products are controlled at 100 % during process (1 to 3 times) and once again at 100% before packaging (final control).

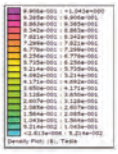
*design on request at myrra.com

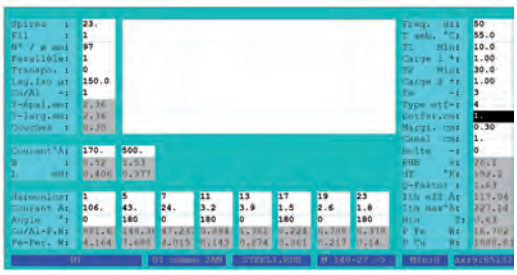
POWER PRODUCTS TESTS and SIMULATION

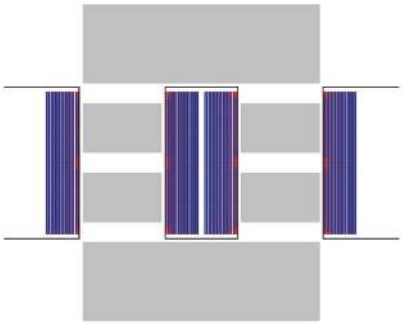
Myrra has the best software to make electrical, mechanical and thermal simulations from the conception products. This allows us to be at the forefront of technology.

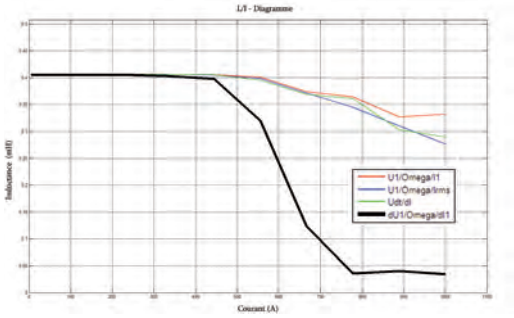
Electrical Simulation



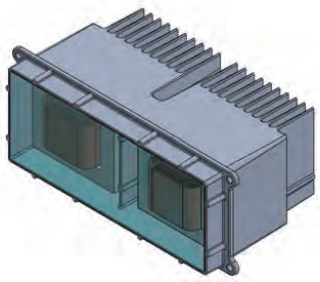




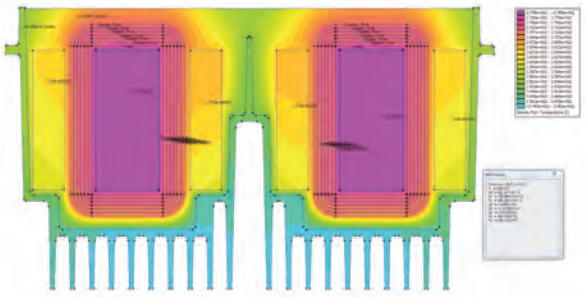


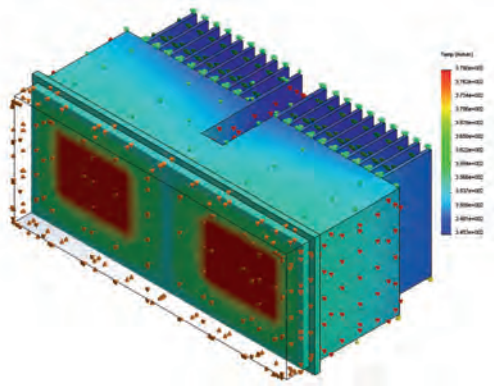


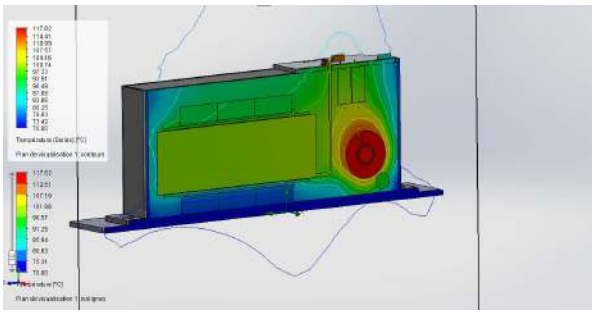
Mechanical Simulation

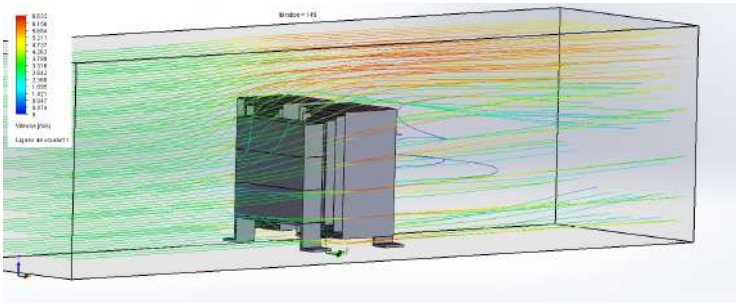


Thermal Simulation







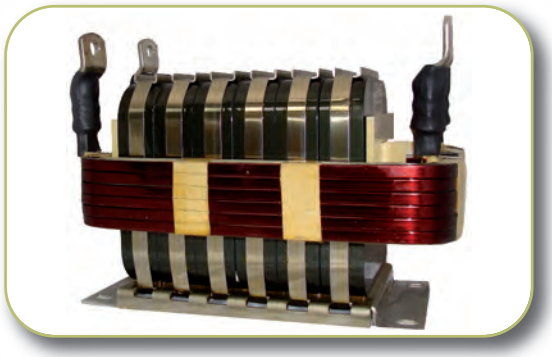


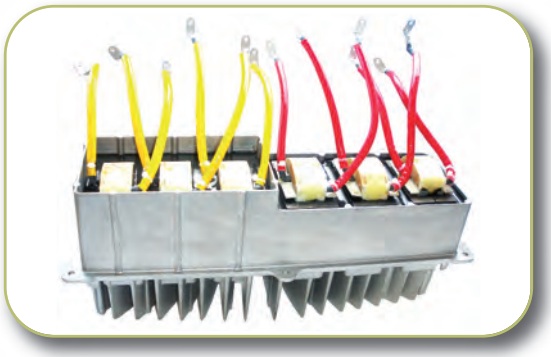
POWER PRODUCTS APPLICATIONS

Myrra is able to demonstrate a great adaptability to the needs and the requirements of the customers with a very high level of competence internationally recognized.

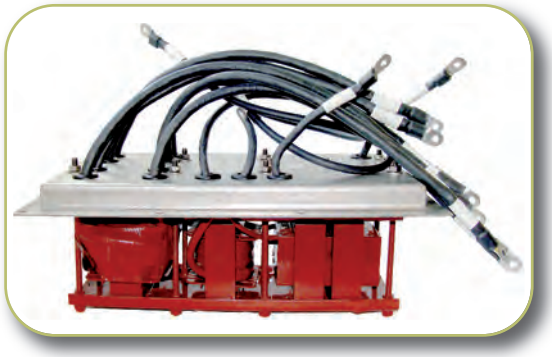
ENERGY CONVERSION

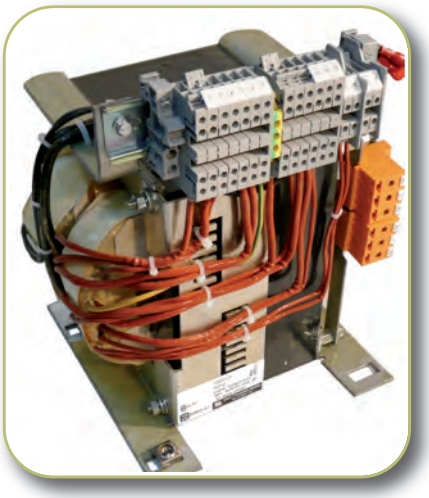
SOLAR





MACHINERY





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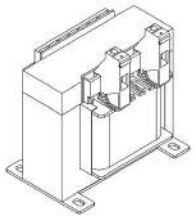
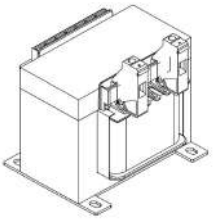
*design on request at myrra.com

NEW



83321

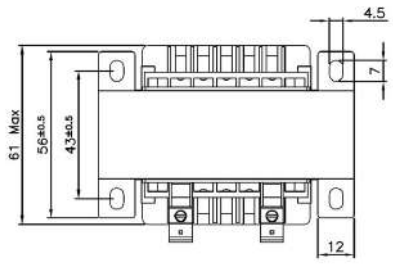


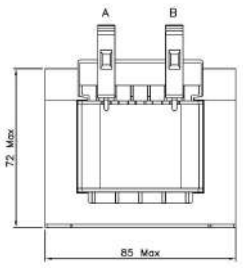
83326

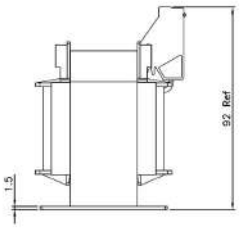
- Operating temperature: -25°C / +140°C (incl. temperature rise)
- Exclusively uses Class H & UL94-V0 listed materials
- Construction conforms to the certified Myrra class H Electrical Insulation System E113497H1

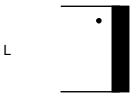
MYRRA Part N°	Current	Inductance +/- 10%	Resistance +/- 10%	Hi-Pot	Saturation Current
Windings		L	L	L / Ground	L
83321	8 Arms 50/60 Hz	9.4 mH	215 mΩ	4.0 kV	11.5 Apk
83326	11 Arms 50/60 Hz	6.2 mH	120 mΩ	4.0 kV	16 Apk
Conditions		10 kHz 0.1 V	DC -25°C	50 Hz 1 minute	ΔL/L = -10%

83321





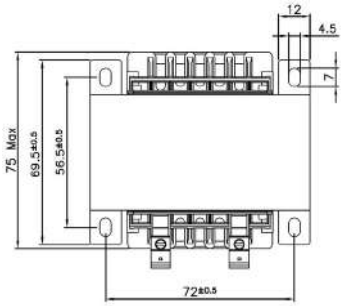


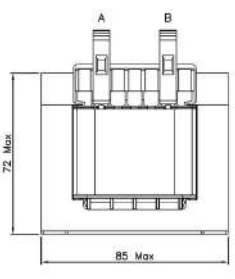


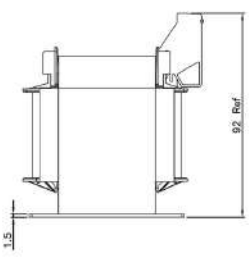
Tolerances : Overall dimensions : +/- 10 mm
Terminals : +/- 5 mm

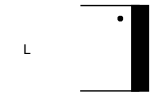
Terminals : Block
Weight : 1.4 kg

83326





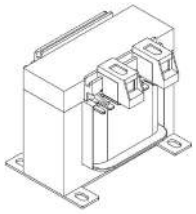




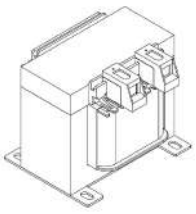
Tolerances : Overall dimensions : +/- 10 mm
Terminals : +/- 5 mm

Terminals : Block
Weight : 2 kg

NEW



83331

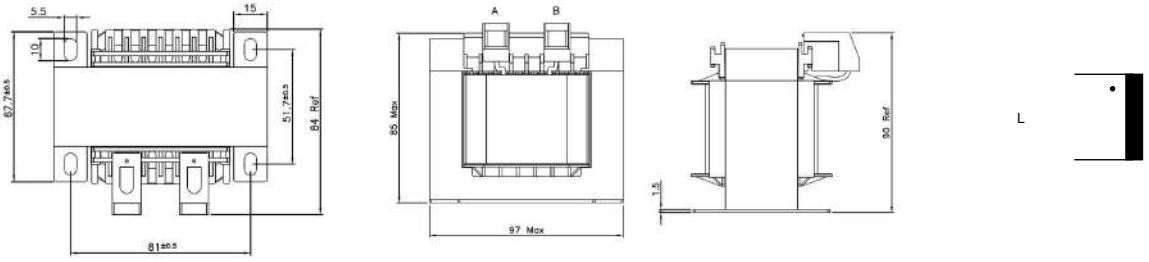


83336

- Operating temperature: -25°C / +140°C (incl. temperature rise)
- Exclusively uses Class H & UL94-V0 listed materials
- Construction conforms to the certified Myrra class H Electrical Insulation System E113497H1

MYRRA Part N°	Current	Inductance +/- 10%	Resistance +/- 10%	Hi-Pot	Saturation Current
Windings		L	L	L / Ground	L
83331	15 Arms 50/60 Hz	4.8 mH	85 mΩ	4.0 kV	21 Apk
83336	20 Arms 50/60 Hz	3.3 mH	50 mΩ	4.0 kV	30 Apk
Conditions		10 kHz 0.1 V	DC -25°C	50 Hz 1 minute	ΔL/L = -10%

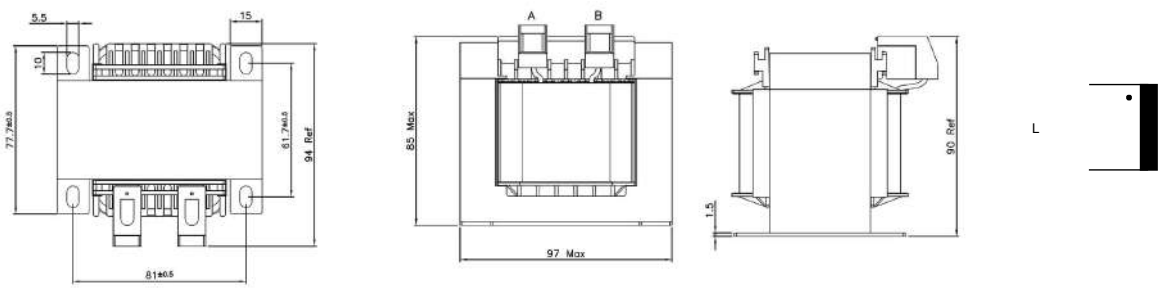
83331



Tolerances : Overall dimensions : +/- 10 mm
Terminals : +/- 5 mm

Terminals : Block
Weight : 2.9 kg

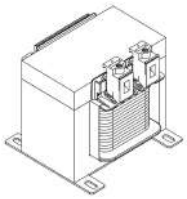
83336



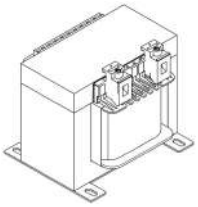
Tolerances : Overall dimensions : +/- 10 mm
Terminals : +/- 5 mm

Terminals : Block
Weight : 2.4 kg

NEW



83341

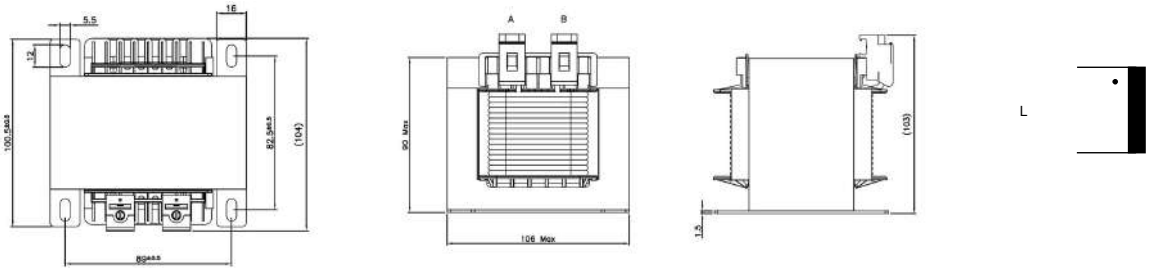


83346

- Operating temperature: -25°C / +140°C (incl. temperature rise)
- Exclusively uses Class H & UL94-V0 listed materials
- Construction conforms to the certified Myrra class H Electrical Insulation System E113497H1

MYRRA Part N°	Current	Inductance +/- 10%	Resistance +/- 10%	Hi-Pot	Saturation Current
Windings		L	L	L / Ground	L
83441	28 Arms 50/60 Hz	2.4 mH	21 mΩ	4.0 kV	40 Apk
83346	34 Arms 50/60 Hz	2.0 mH	20 mΩ	4.0 kV	60 Apk
Conditions		10 kHz 0.1 V	DC -25°C	50 Hz 1 minute	ΔL/L = -10%

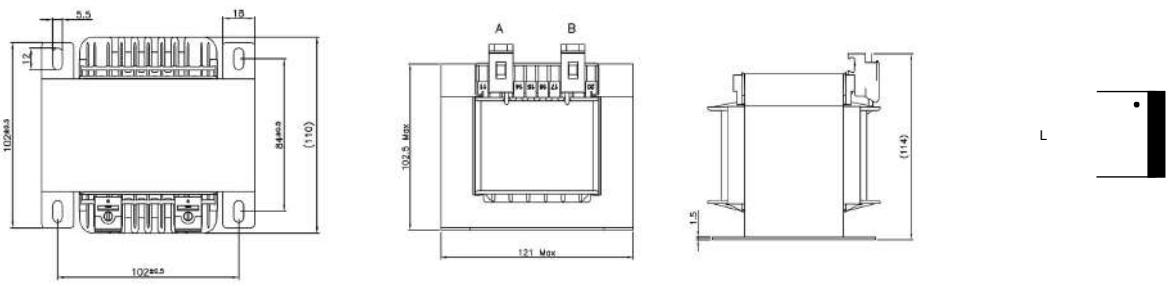
83341



Tolerances : Overall dimensions : +/- 10 mm
Terminals : +/- 5 mm

Terminals : Block
Weight : 4.27 kg

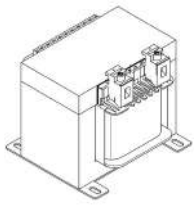
83346



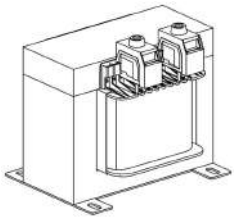
Tolerances : Overall dimensions : +/- 10 mm
Terminals : +/- 5 mm

Terminals : Block
Weight : ~6 kg

NEW



83351

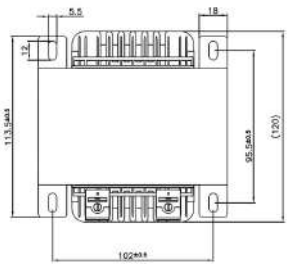


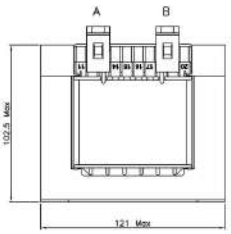
83356

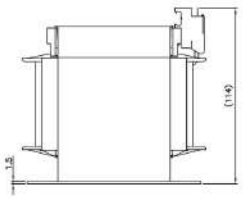
- Operating temperature: -25°C / +140°C (incl. temperature rise)
- Exclusively uses Class H & UL94-V0 listed materials
- Construction conforms to the certified Myrra class H Electrical Insulation System E113497H1

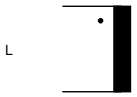
MYRRA Part N°	Current	Inductance +/- 10%	Resistance +/- 10%	Hi-Pot	Saturation Current
Windings		L	L	L / Ground	L
88351	40 Arms 50/60 Hz	1.6 mH	- mΩ	4.0 kV	90 Apk
83356	55 Arms 50/60 Hz	1.2 mH	- mΩ	4.0 kV	110 Apk
Conditions		10 kHz 0.1 V	DC -25°C	50 Hz 1 minute	ΔL/L = -10%

83351





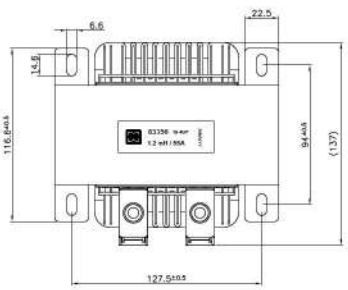


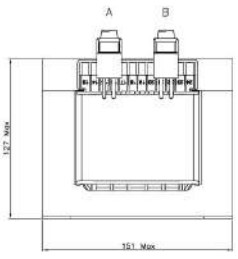


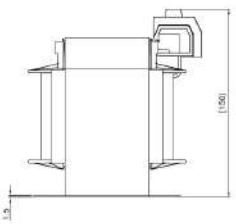
Tolerances : Overall dimensions : +/- 10 mm
Terminals : +/- 5 mm

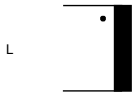
Terminals : Block
Weight : ~ 6.3 kg

83356







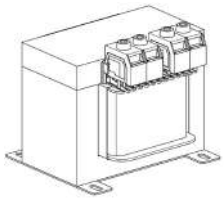


Tolerances : Overall dimensions : +/- 10 mm
Terminals : +/- 5 mm

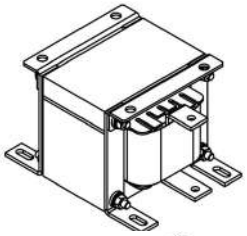
Terminals : Block
Weight : ~ 9.5 kg

NEW

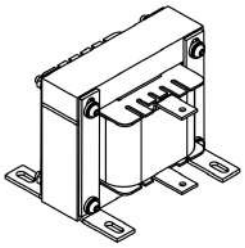
83361



83366

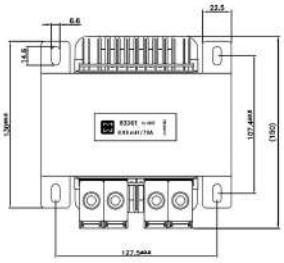


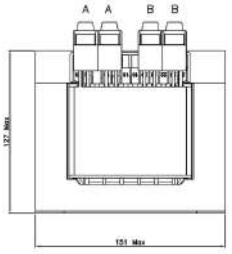
83371

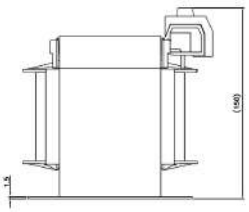


MYRRA Part N°	Current	Inductance +/- 10%	Resistance +/- 10%	Hi-Pot	Saturation Current
Windings		L	L	L / Ground	L
83361	70 Arms 50/60 Hz	0.98 mH	6 mΩ	4.0 kV	140 Apk
83366	85 Arms 50/60 Hz	0.81 mH	- mΩ	4.0 kV	150 Apk
83371	100 Arms 50/60 Hz	0.67 mH	4 mΩ	4.0 kV	170 Apk
Conditions		10 kHz 0.1 V	DC -25°C	50 Hz 1 minute	ΔL/L = -10%

83361



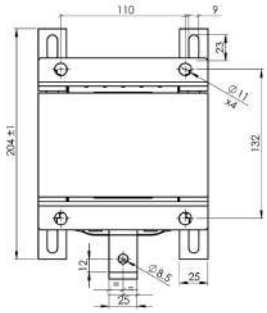


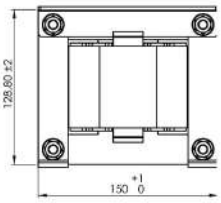


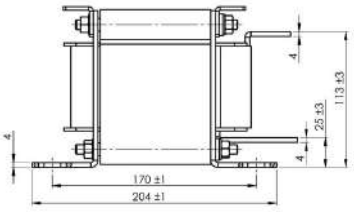
Tolerances : Overall dimensions : +/- 10 mm
Terminals : +/- 5 mm

Terminals : Block
Weight : ~ 11 kg

83366



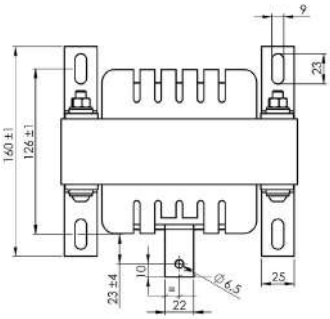


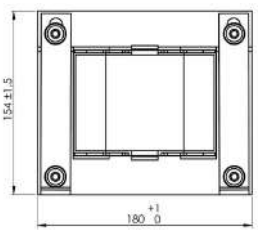


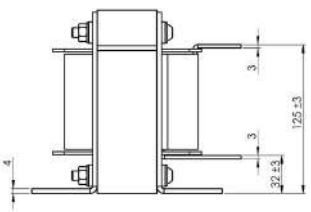
Tolerances : Overall dimensions : +/- 10 mm
Terminals : +/- 5 mm

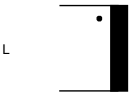
Terminals : Copper Bars
Weight : - kg

83371



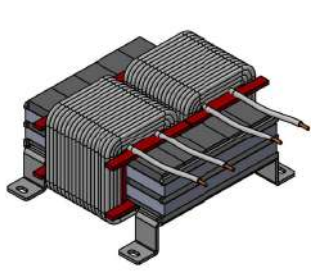




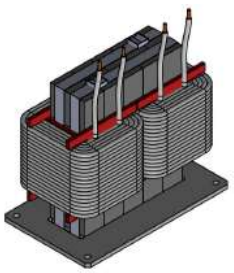


Tolerances : Overall dimensions : +/- 10 mm
Terminals : +/- 5 mm

Terminals : Copper Bars
Weight : - kg



83537

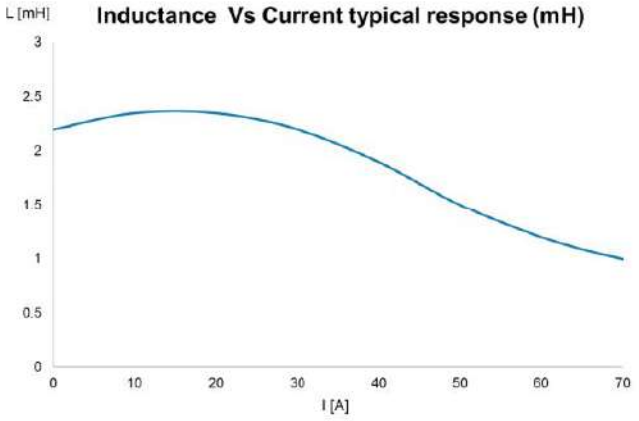


83538

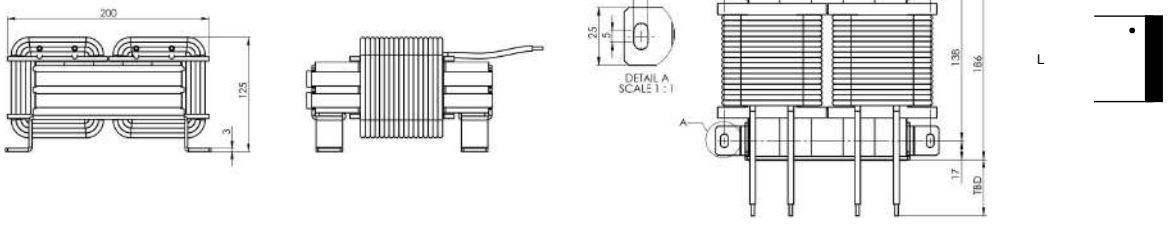
- Operating temperature: -40°C / +140°C (incl. temperature rise)
- Exclusively uses Class H & UL94-V0 listed materials
- Construction conforms to the certified Myrra class H Electrical Insulation System E113497H1

MYRRA Part N°	V.t product	Current
83537 83538	10 000 V.µs max.	25 Arms or 25 ADC and 5 APP (5 ~ 20 kHz)

MYRRA Part N°	Inductance +/- 10%	Resistance +/- 10%	Hi-Pot	L vs I response
Windings	L	L	L / Ground	L
83537 83538	2.0 mH	32.5 mΩ	4.0 kV	See graph



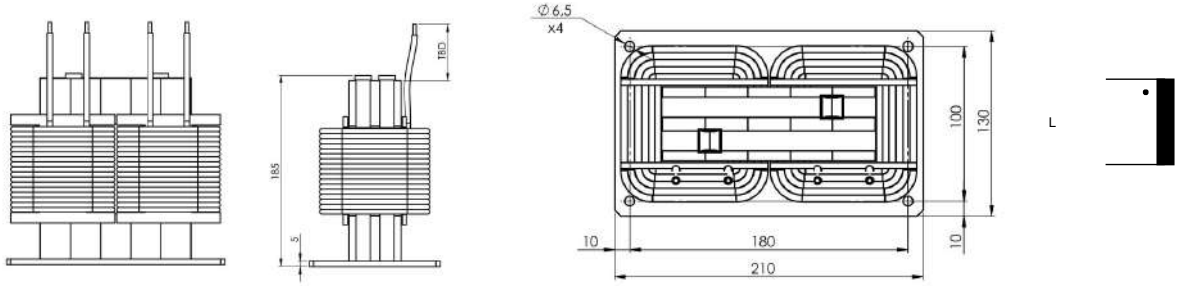
83357



Tolerances : Overall dimensions : +/- 10 mm
Terminals : +/- 5 mm

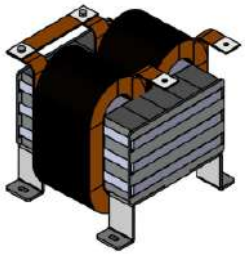
Terminals : Leads
Weight : 12 kg

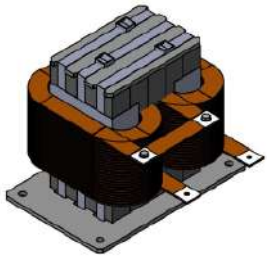
83538



Tolerances : Overall dimensions : +/- 10 mm
Terminals : +/- 5 mm

Terminals : Leads
Weight : 12 kg

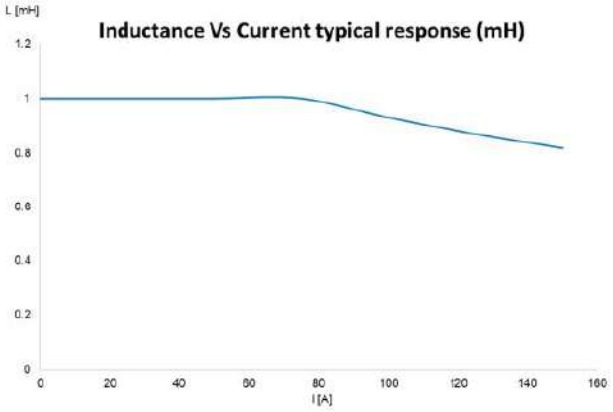

83547


83548

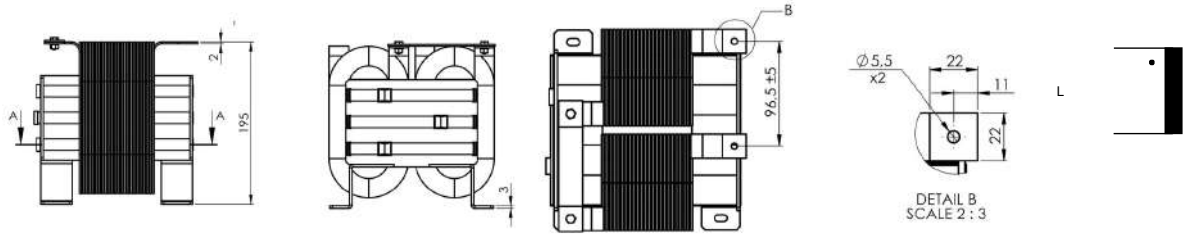
- Operating temperature: -40°C / +140°C (incl. temperature rise)
- Exclusively uses Class H & UL94-V0 listed materials
- Construction conforms to the certified Myrra class H Electrical Insulation System E113497H1

MYRRA Part N°	V.t product	Current
83547 83548	10 000 V.µs max.	50 Arms or 50 ADC and 10 APP (5 ~ 20 kHz)

MYRRA Part N°	Inductance +/- 10%	Resistance +/- 10%	Hi-Pot	L vs I response
Windings	L	L	L / Ground	L
83547 83548	1.0 mH	7.2 mΩ	4.0 kV	See graph



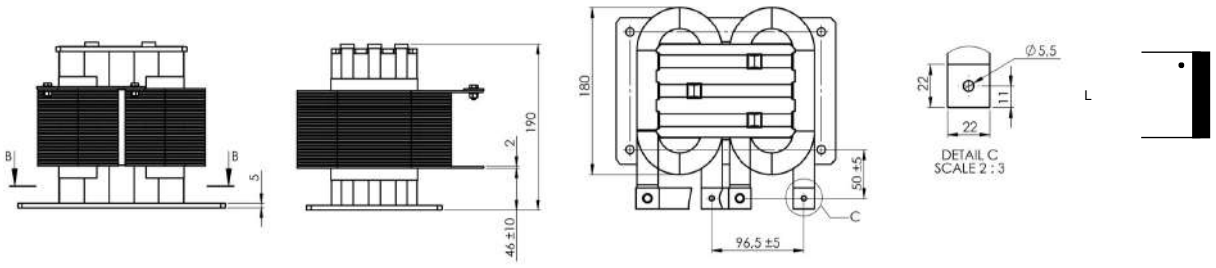
83547



Tolerances : Overall dimensions : +/- 10 mm
Terminals : +/- 5 mm

Terminals : Bars
Weight : 20 kg

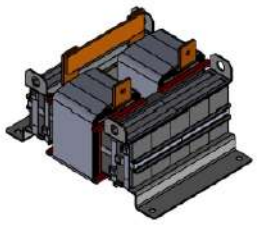
83548



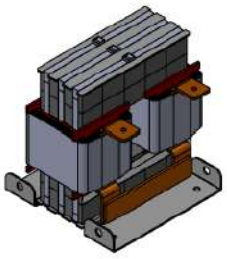
Tolerances : Overall dimensions : +/- 10 mm
Terminals : +/- 5 mm

Terminals : Bars
Weight : 20 kg

NEW



83557

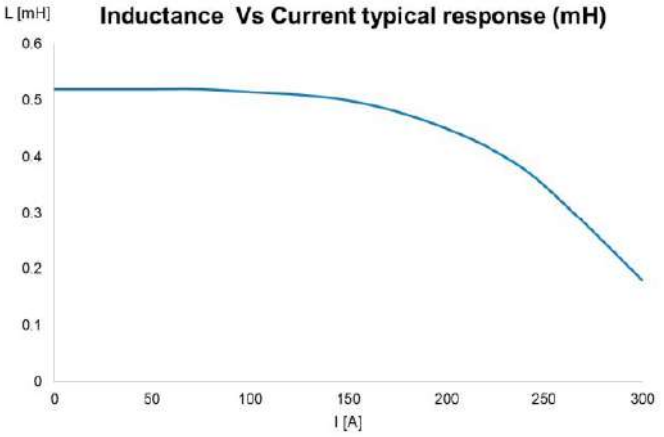


83558

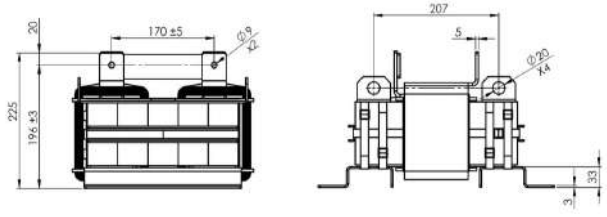
- Operating temperature: -40°C / +140°C (incl. temperature rise)
- Exclusively uses Class H & UL94-V0 listed materials
- Construction conforms to the certified Myrra class H Electrical Insulation System E113497H1

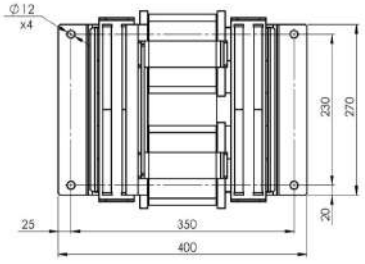
MYRRA Part N°	V.t product	Current
83557 83558	15 000 V.µs max.	100 Arms or 100 ADC and 40 APP (5 ~ 50 kHz)

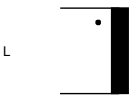
MYRRA Part N°	Inductance +/- 10%	Resistance +/- 10%	Hi-Pot	L vs I response
Windings	L	L	L / Ground	L
83557 83558	0.5 mH	2.4 mΩ	4.0 kV	See graph



83557



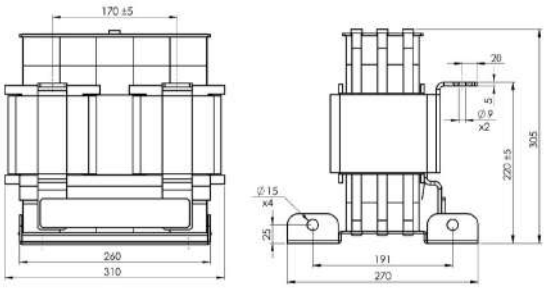


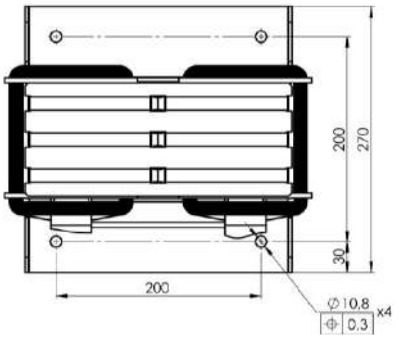


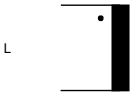
Tolerances : Overall dimensions : +/- 10 mm
Terminals : +/- 5 mm

Terminals : Bars
Weight : 36 kg

83558



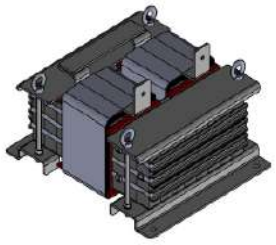




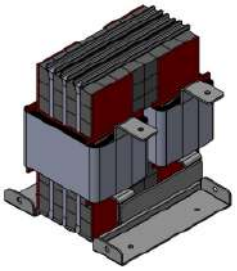
Tolerances : Overall dimensions : +/- 10 mm
Terminals : +/- 5 mm

Terminals : Bars
Weight : 36 kg

NEW



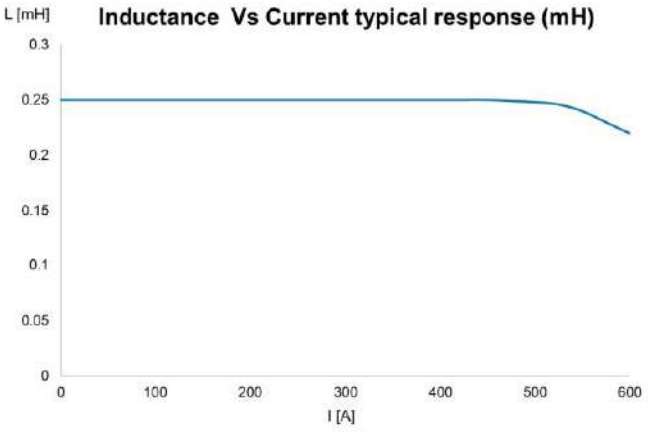
83567



83568

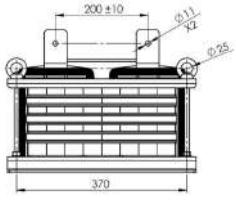
- Operating temperature: -40°C / +140°C (incl. temperature rise)
- Exclusively uses Class H & UL94-V0 listed materials
- Construction conforms to the certified Myrra class H Electrical Insulation System E113497H1

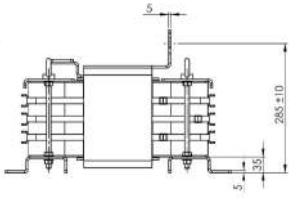
MYRRA Part N°	V.t product	Current
83567 83568	20 000 V.µs max.	200 Arms or 200 ADC and 50 APP (5 ~ 50 kHz)

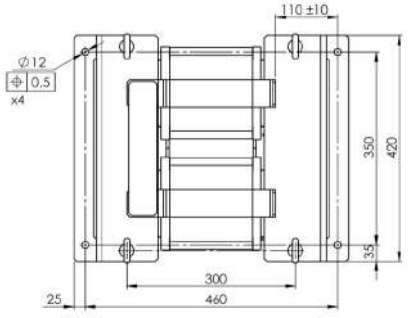


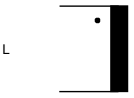
MYRRA Part N°	Inductance +/- 10%	Resistance +/- 10%	Hi-Pot	L vs I response
Windings	L	L	L / Ground	L
83567 83568	0.25 mH	1.9 mΩ	4.0 kV	See graph

83567





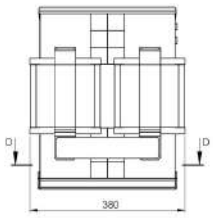


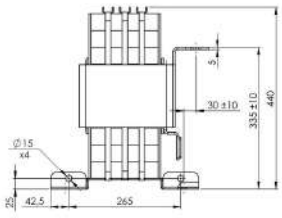


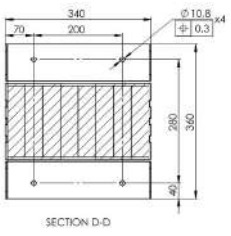
Tolerances : Overall dimensions : +/- 10 mm
Terminals : +/- 5 mm

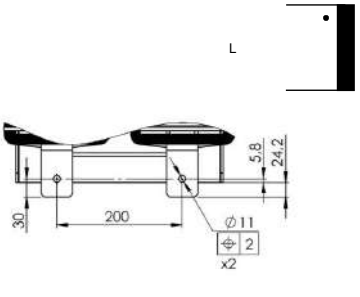
Terminals : Copper Bars
Weight : 120 kg

83568





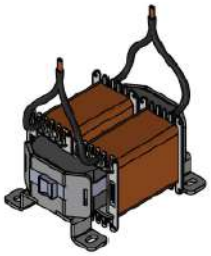




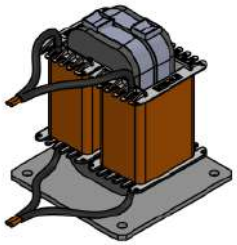
Tolerances : Overall dimensions : +/- 10 mm
Terminals : +/- 5 mm

Terminals : Copper Bars
Weight : 120 kg

NEW



83637

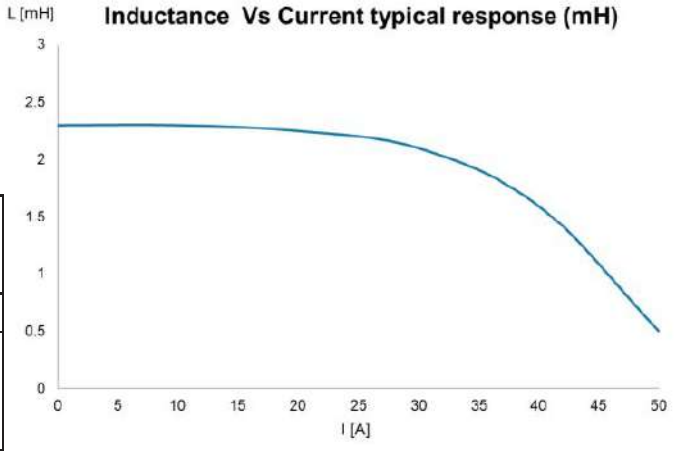


83638

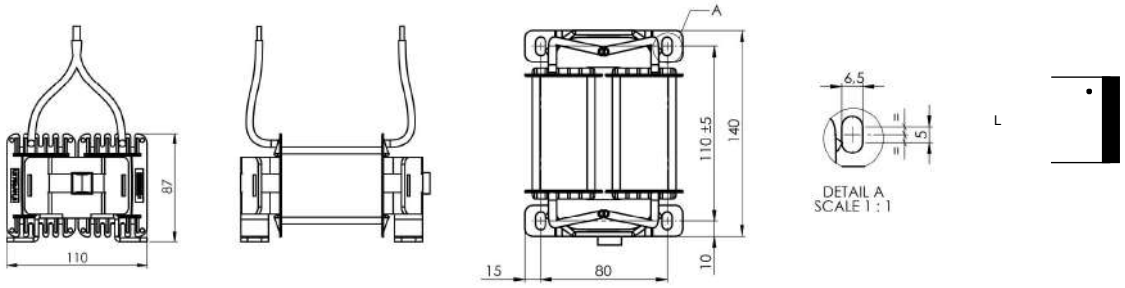
- Operating temperature: -40°C / +140°C (incl. temperature rise)
- Exclusively uses Class H & UL94-V0 listed materials
- Construction conforms to the certified Myrra class H Electrical Insulation System E113497H1

MYRRA Part N°	V.t product	Current
83637 83638	10 000 V.µs max.	25 Arms or 25 ADC and 5 APP (5 ~ 20 kHz)

MYRRA Part N°	Inductance +/- 10%	Resistance +/- 10%	Hi-Pot	L vs I response
Windings	L	L	L / Ground	L
83637 83638	2.0 mH	26.3 mΩ	4.0 kV	See graph



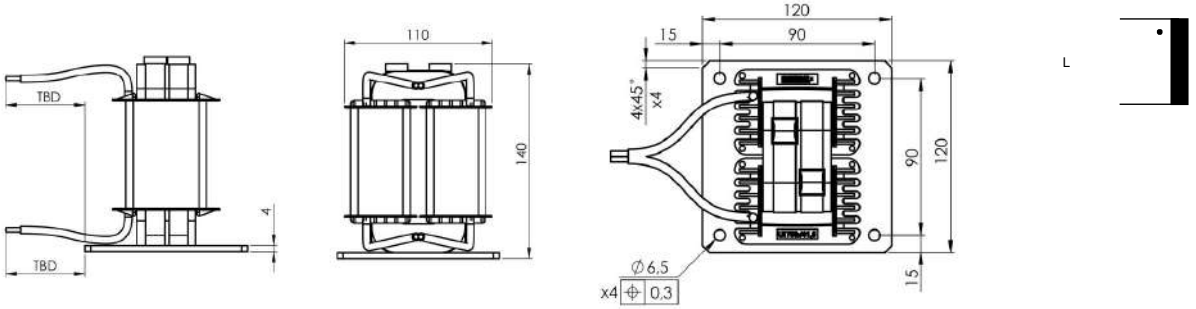
83637



Tolerances : Overall dimensions : +/- 10 mm
Terminals : +/- 5 mm

Terminals : Leads
Weight : 3.5 kg

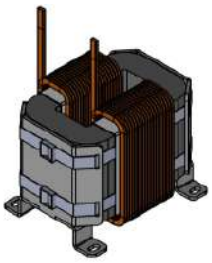
83638



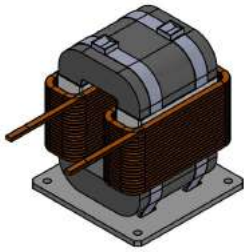
Tolerances : Overall dimensions : +/- 10 mm
Terminals : +/- 5 mm

Terminals : Leads
Weight : 3.5 kg

NEW



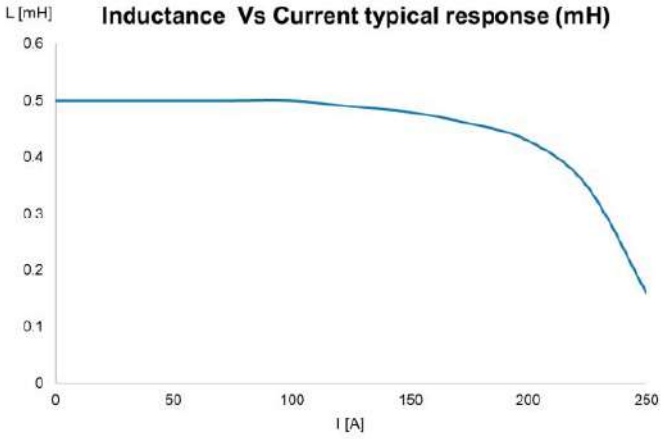
83657



83658

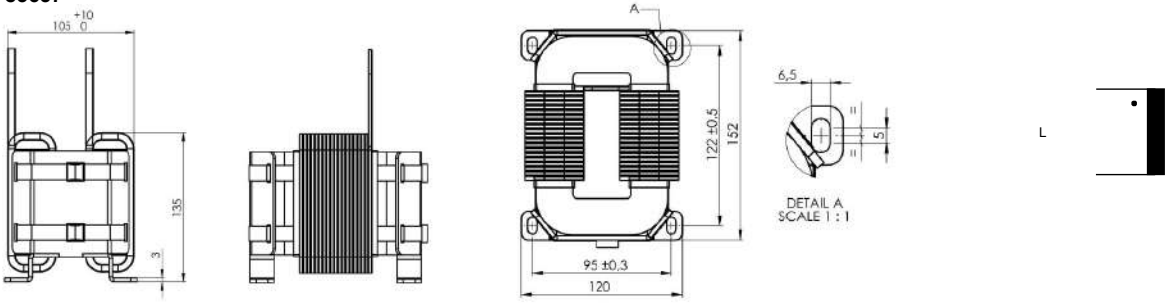
- Operating temperature: -40°C / +140°C (incl. temperature rise)
- Exclusively uses Class H & UL94-V0 listed materials
- Construction conforms to the certified Myrra class H Electrical Insulation System E113497H1

MYRRA Part N°	V.t product	Current
83657 83658	12 000 V.µs max.	100 Arms or 100 ADC and 20 APP (5 ~ 20 kHz)



MYRRA Part N°	Inductance +/- 10%	Resistance +/- 10%	Hi-Pot	L vs I response
Windings	L	L	L / Ground	L
83657 83658	0.5 mH	3.8 mΩ	4.0 kV	See graph

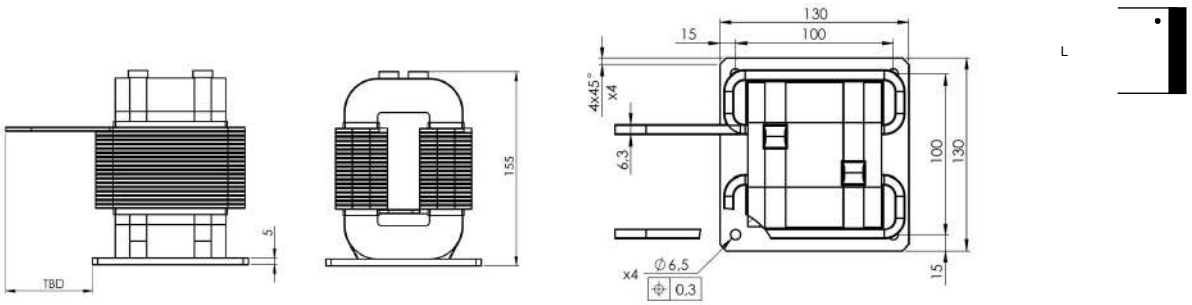
83657



Tolerances : Overall dimensions : +/- 10 mm
Terminals : +/- 5 mm

Terminals : Leads
Weight : 12 kg

83658



Tolerances : Overall dimensions : +/- 10 mm
Terminals : +/- 5 mm

Terminals : Leads
Weight : 12 kg

POWER SUPPLIES 1W to 60W

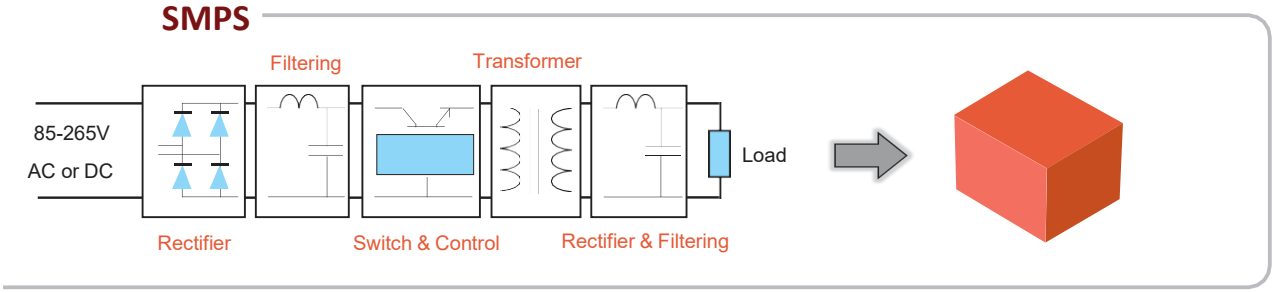
MYRRA encapsulated Switched Mode Power Supplies is based on Flyback topology.

They constitute an interesting alternative to the traditional supply in the most common applications of power from 1W to 60W.

ENERGY SAVING due to high efficiency and low standby power.

MAIN FEATURES

- **Wide input voltage range**
- **Increased power: 3 x compared to standard EE20-EI30-EI38 transformers**
- **Better energetic efficiency: 70% typical compared to 40% for the conventional supply**
- **Very low Standby Power consumption: meets requirements of Energy Star or EC Code of Conduct**
- **Same footprint as EE20-EI30-EI38-EI48 transformer: (1W~10W) Upgrade your application without redesign of PCB**



Application for our Power Supplies:

- Alternative to the linear transformers in all AC/DC applications of power up to 60W
- Alternative to DC/DC converters for application in D.C. current (Telecom supplies, electric substations etc.)
- Industrial, domestic and consumer electronics applications
- Standby devices and others DC or AC auxiliary supplies

With the same footprint as an EI30 transformer, they will replace:

- 50 Hz Transformer
- Fuse
- Bridge Rectifier
- Filtering Capacitor

Regulated types will also replace linear regulator and heatsink

SAFETY STANDARDS

Meets all requirements of:

- EN 60950
- EN 60335
- EN 61558-2-16
- EN 61558-1
- UL 60950-1
- CSA 22.2 N°60950-1
- UL 94-V0

EMC STANDARDS

Conducted and radiated emissions conform to

- EN 55014-1
- EN 55032 class B

Immunity conform to

- EN 55014-2
- EN 61000-4-x

1W to 3W

3 Certified Power Ratings
in
1 Power Supply

2.5W to 5W

7.5W

10W

20W to 60W

*design on request at myrra.com

48000 Series

Single Output 1W ~3W

47000 Series

Single Output 2.5W ~ 5W

Single Output 2.4W ~ 5W (relaxed regulation)

Dual Output 3W ~ 5W (common ground) Dual

Output 3W ~ 4W (isolated outputs) Single

Output 7.5W

Single Output 10W

Single Output 20W

Single Output 30W ~ 40W

49000 Series

Single Output 2.5W ~ 5W Single
Output 7.5 W ~ 10W Single
Output 20W
Single Output 60W

Modified and Custom Solutions

TECHNICAL SERVICES :

- Alternative DC Output Voltages
- Single, Dual or Triple Output Voltages
- Addition of Signal Pins for AC OK, Remote on/off, sense etc.
- Alternative Power Rating
- Revised 'Hold-up' timing to suit System needs
- Customer specific product 'Branding/Labelling'
- Specific Power Supply Manufacturing Functional Test Profile
- Integrating the Power Supply on the System PCB
- Alternative Power Supply Housing
- Revised DC Output Filtering

CUSTOMER SERVICES :

- Existing Designs for Modified Standards
- Flexible Manufacturing Batch Sizes
- European Stock-holding locations
- European Engineering and Logistics Support
- Country Specific Distribution Partners
- Manufacturing dynamics for Volume Fluctuations
- Myrra Quality Controlled Design and Manufacturing
- Fast Sample Service

Power Supplies Catalogue available

hard copy or online at Myrra.com

Save valuable time for your specific request for non-standard products

Reminder of the data needed to easily validate your request

Technical:

For all Request:

Ambient	
Max dimensions	
Required standards approvals	

Encapsulated Transformers

Transfo // Autotr.	
Power (VA)	
Input voltage (V)	
Output voltage(s) (V)	
Output current(s) (A)	
Frequency (Hz)	

Chokes (power and 50 Hz)

Type (AC // DC // PFC…)	
Inductance value (mH)	
Current (Arms)	
Ripple freq. (kHz)	
Ripple current (Apkpk)	
Derating curve (L Vs I)	

Common Mode Chokes

Inductance value (mH)	
Current (A)	
Phases number	

HF transformers

Power (W)	
Topology (Flyback // forward …)	
Input voltatge range (V) Output voltage(s) (V)	
Output current(s) (A) Frequency (kHz)	
Controller (*)	
Level of insulation	
Pollution degree	

Current transformers

Primary current (Arms)	
Ratio	
Load (Ω)	
Frequency (Hz)	
Accuracy	
Through hole // Primary pin	
Insulation level	

Commercial:

Quantity / year	
Application	
Project	
Production start date	
Contact details	

Go to Design on Request online:
myrra.com

Or contact us on :
contact@myrra.com

www.myrra.com

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contact@myrra.com