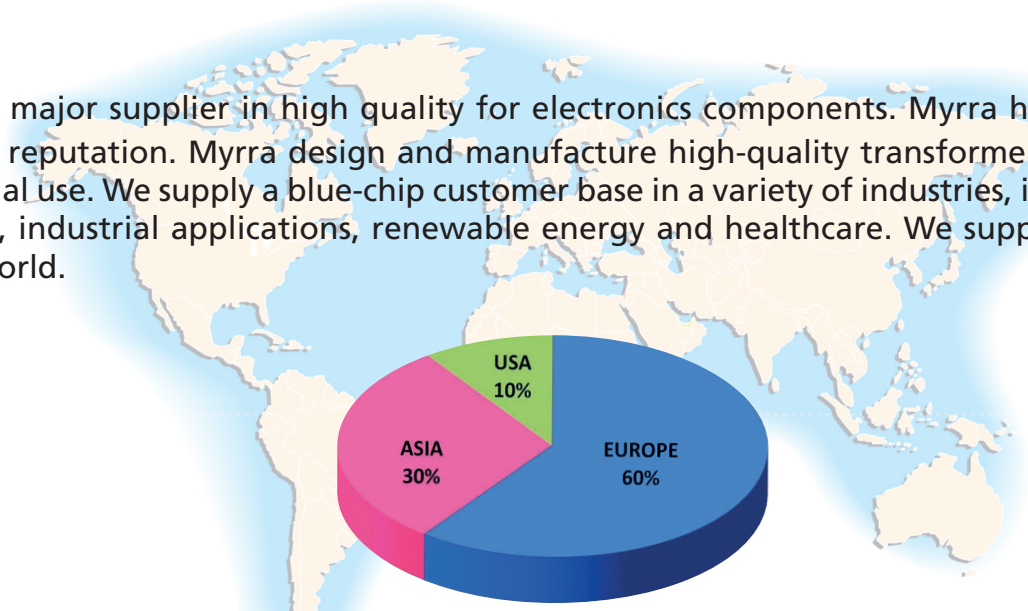
TRANSFORMERS & INDUCTORS

MYRRA

...Of course !

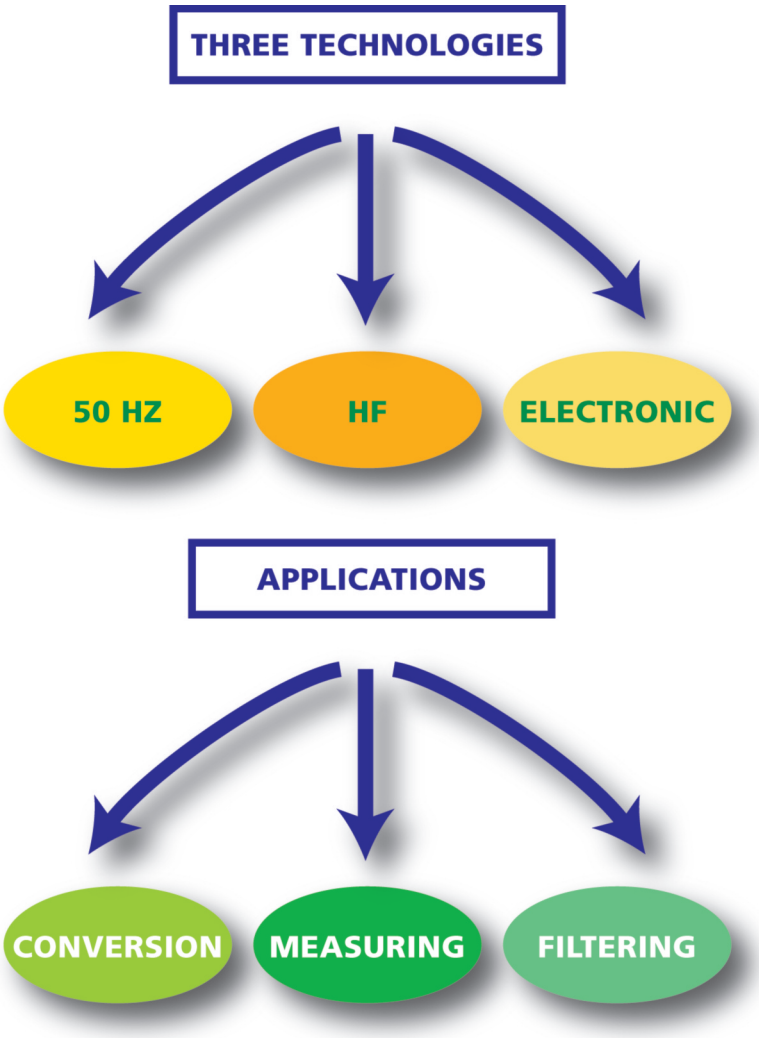
COMPANY PROFILE



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.

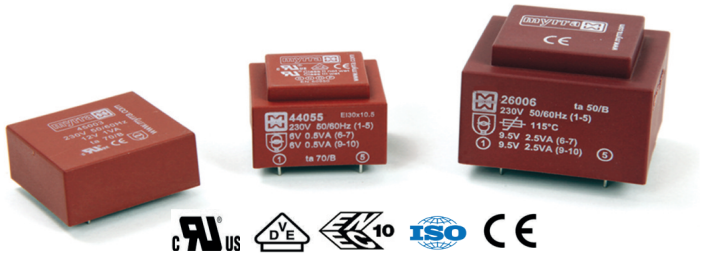
A wide range of products : We offer application specific transformers, inductors, chokes and coils,in three technologies: high frequency, 50Hz technology and electronic, enabling us to serve a number of major markets.

MAGNETICS PRODUCTS



PRODUCT LINES

PCB MAGNETIC COMPONENTS

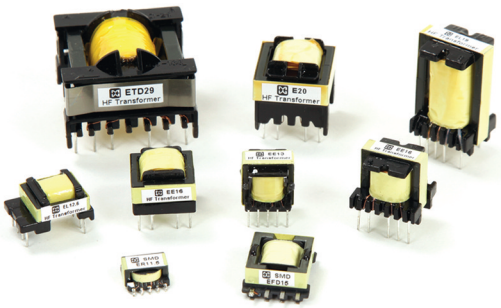


Encapsulated 50Hz transformers (44 & 45 series)

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

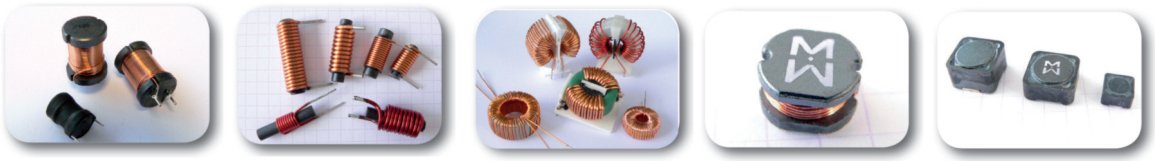
Ferrites core transformers & inductors (74 series)

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



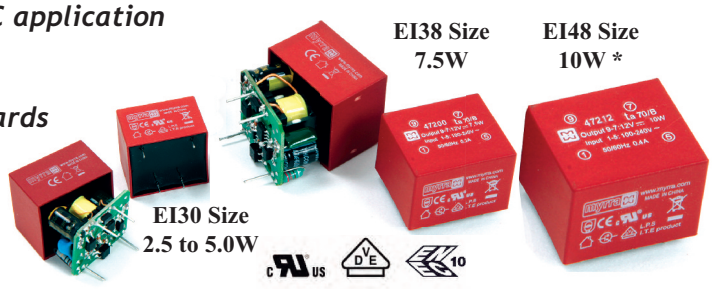
Conform to IEC950 IEC335 IEC61558

IT application inductors -THC- SMD type (75-79 series)



POWER SUPPLY / Electronic Transformers (47 series)

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



POWER RANGE transformers and chokes for specific applications

Lamination and ferrite core

- *Customized design on specification*
- *Up to 50kVA for 1000V input range*
- *Insulation systems : B, F, H classes*
- *UL, IEC, CSA Compliant*

Low frequency, High frequency

ISO 9001 2008
ISO 14000

EN60950

EN61558-2-6

MYRRA FRANCE (HQ)

MYRRA DEUTSCHLAND

MYRRA POLAND

MYRRA TURKEY

MYRRA HISPANIA - Comtrafo

MYRRA HONG-KONG

MYRRA ZHONGSHAN (China)

YOUR CONTACT :

Name

Phone

Email

www.myrra.com

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.

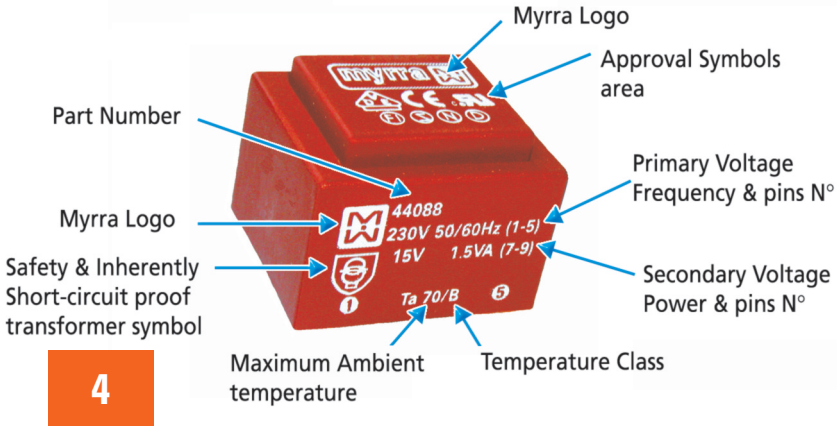
This should not differ from the rated value by more than :
10% for transformers with build-in resistance to short-circuits (a supplement of 5% is granted on the 2 nd secondary for tranformers with 2 secondaries).
5% for other transformers whatever the secondaries number.

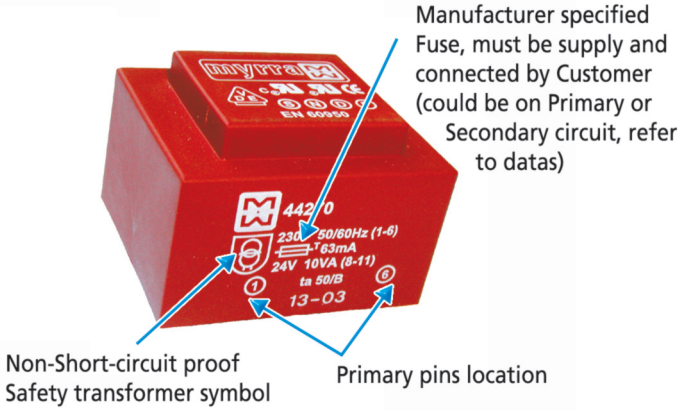
Off-load secondary voltage.

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 .

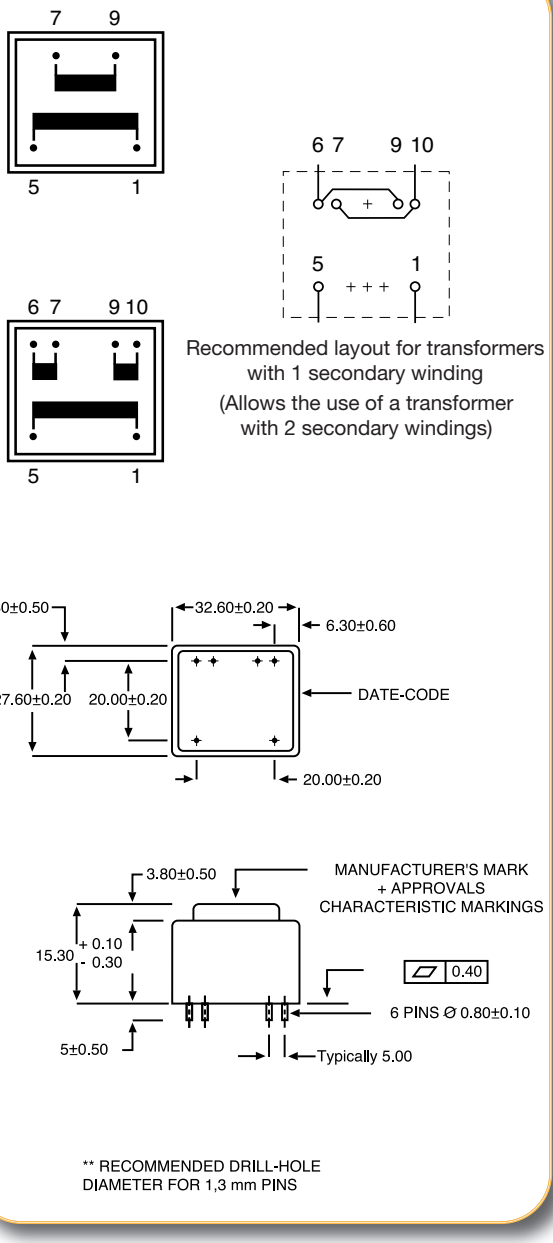
SPECIAL TRANFORMERS
MYRRA can use the 44000, 45000 or 46000 standard ranges to examine any transformer for compliance with your specifications and with international standards.
On request, we can add thermal protection, thermal fuse, thermal switch-CTP.
In certain cases, the addition of thermal protection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



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.

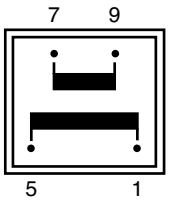
PRIMARY VOLTAGE 117 V

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

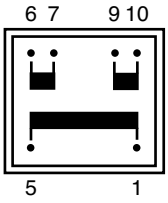
- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 VO
- Degree of protection IP 00
- 70 grams weight
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Inherently short-circuits proof
- 30 V and 36 V models are VDE EN 61558-2-6 certified (production on request)

1 Secondary winding



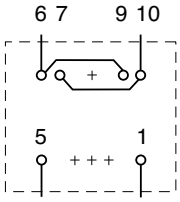
Primary winding

2 Secondary windings



Primary winding

Recommended layout for transformers with 1 secondary winding

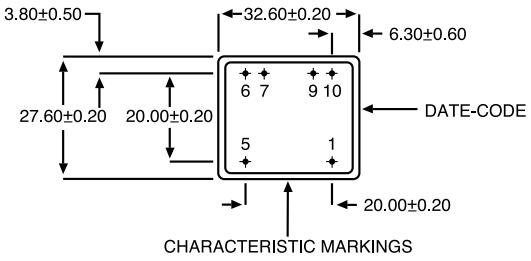


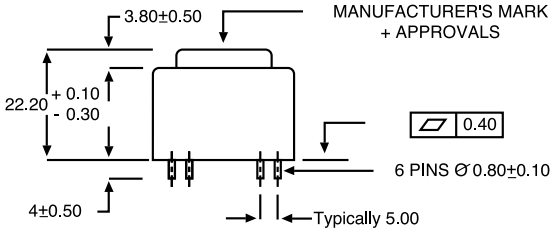
(Allows the use of a transformer with 2 secondary windings)

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

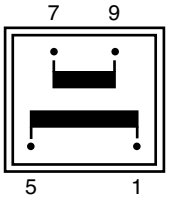
PRIMARY VOLTAGE 117 V

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

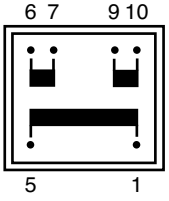
- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 VO
- Degree of protection IP 00
- 80 grams weight
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Inherently short-circuits proof
- 30 V model is VDE EN 61558-2-6 certified (production on request)

1 Secondary winding



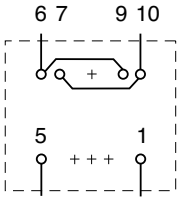
Primary winding

2 Secondary windings



Primary winding

Recommended layout for transformers with 1 secondary winding



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

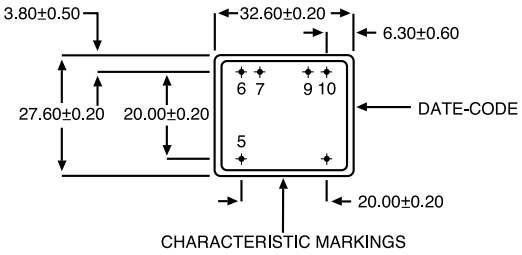
QUALITY IN SERIES

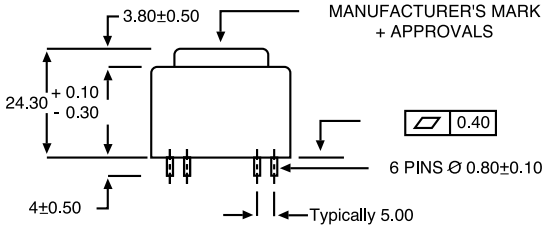
myrra an acal group company

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

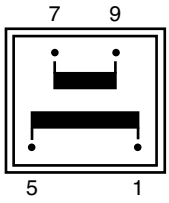
PRIMARY VOLTAGE 117 V

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

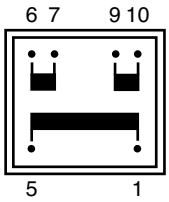
- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 VO
- Degree of protection IP 00
- 100 grams weight
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Inherently short-circuits proof
- 30 V model is VDE EN 61558-2-6 certified (production on request)
- Insulation voltage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

1 Secondary winding



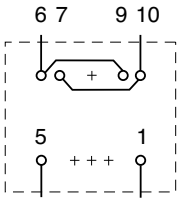
Primary winding

2 Secondary windings



Primary winding

Recommended layout for transformers with 1 secondary winding



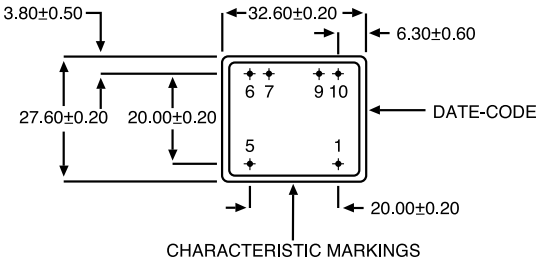
(Allows the use of a transformer with 2 secondary windings)

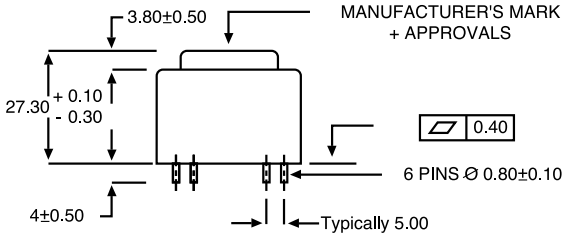
myrra an acal group company

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

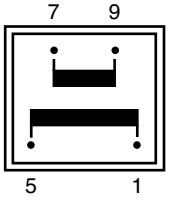
PRIMARY VOLTAGE 117 V

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

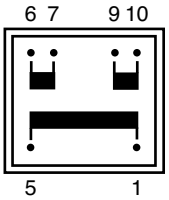
- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 VO
- Degree of protection IP 00
- 70 grams weight
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Inherently short-circuits proof
- 30 V model is VDE EN 61558-2-6 certified (production on request)

1 Secondary winding



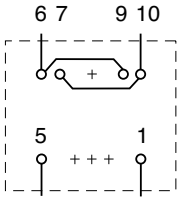
Primary winding

2 Secondary windings



Primary winding

Recommended layout for transformers with 1 secondary winding



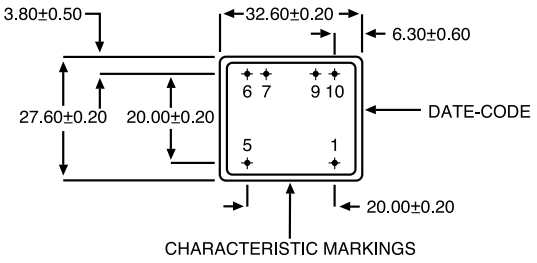
(Allows the use of a transformer with 2 secondary windings)

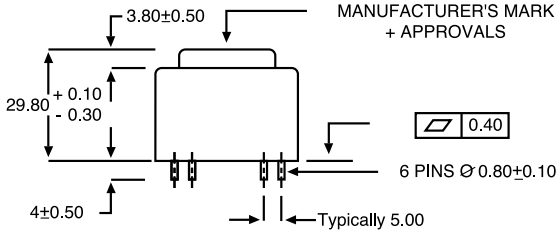
myrra an acal group company

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

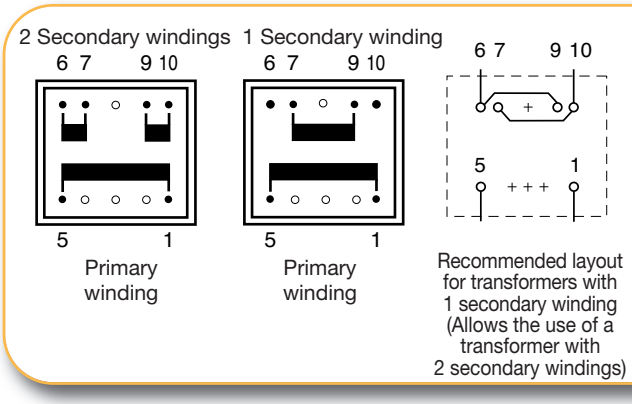
	44697	6	467	10,5	T 40 B	2,8
	44698	9	311	15,4	T 40 B	2,8
	44699	12	233	21,1	T 40 B	2,8
	44700	15	187	26,3	T 40 B	2,8
	44701	18	156	30,9	T 40 B	2,8
	44702	24	117	42,1	T 40 B	2,8
	44703	2 x 6	2 x 233	2 x 10,5	T 40 B	2,8
	44704	2 x 9	2 x 156	2 x 15,4	T 40 B	2,8
	44705	2 x 12	2 x 117	2 x 21,1	T 40 B	2,8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

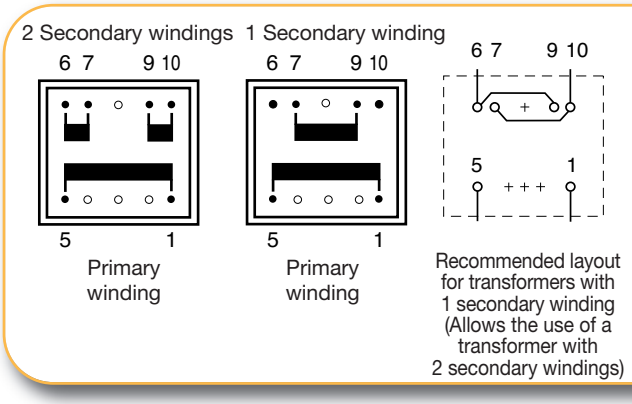


PRIMARY VOLTAGE 117 V

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

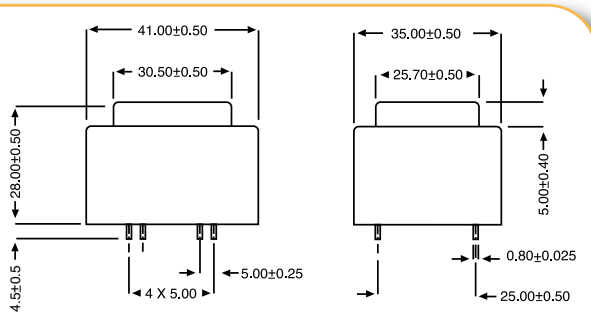
- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 VO
- Degree of protection IP 00
- 200 grams weight
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Fuse protection on secondary side (see diagram) to be assumed by customer



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

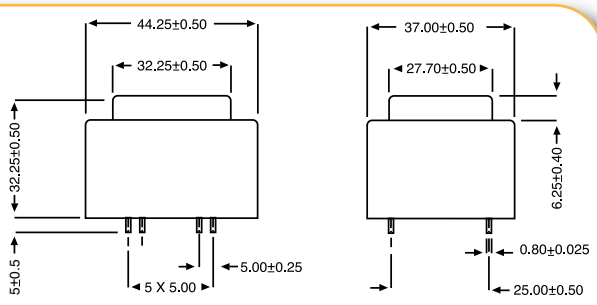
PRIMARY VOLTAGE 230 V

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

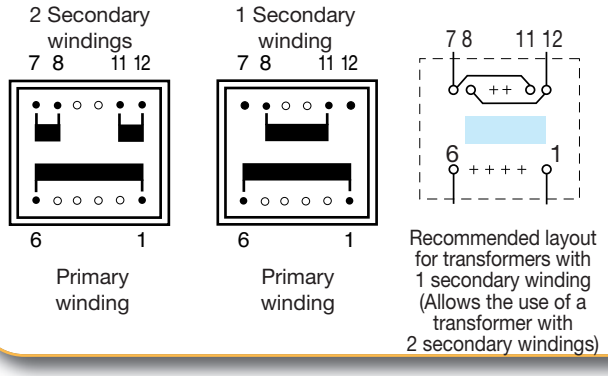
Secondary protection mA	Reference	Secondary voltage V	Secondary current m A	No-load voltage V	Ambient Temperature °C	Rating VA
800	44229	6	833	8,4	T 50 B	5
630	44230	9	556	12,6	T 50 B	5
400	44231	12	417	16,9	T 50 B	5
315	44232	15	333	21	T 50 B	5
315	44233	18	278	25,3	T 50 B	5
200	44234	24	208	33,7	T 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

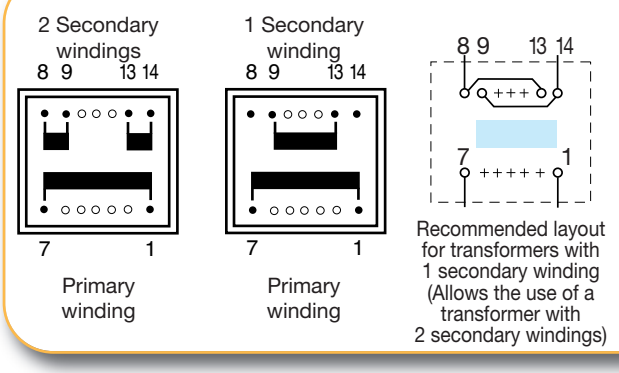


PRIMARY VOLTAGE 117 V

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

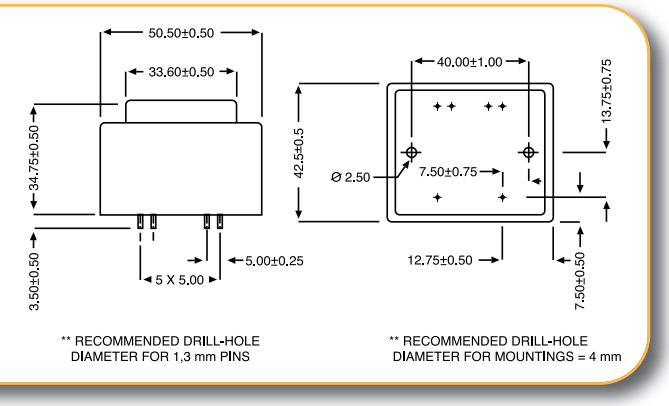


myrra
an acal group company

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

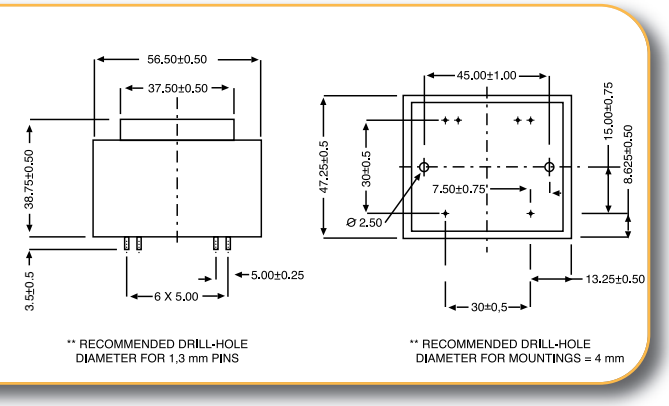
Primary protection mA	Reference	Secondary voltage V	Secondary current m A	No-load voltage V	Ambient Temperature °C	Rating VA
63	44265	6	1667	7,2	T 50 B	10
63	44266	9	1111	10,8	T 50 B	10
63	44267	12	833	14,4	T 50 B	10
63	44268	15	667	18,1	T 50 B	10
63	44269	18	556	21,6	T 50 B	10
63	44270	24	417	28,9	T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

- 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

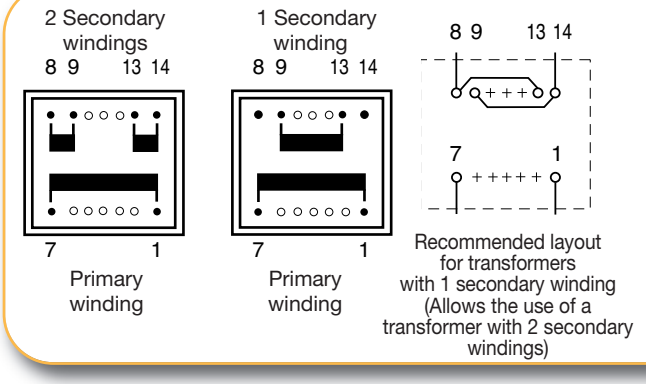
Secondary protection mA	Reference	Secondary voltage V	Secondary current m A	No-load voltage V	Ambient Temperature °C	Rating VA
2,500	44301	6	2667	7,4	T 50 B	16
2,000	44302	9	1778	11,1	T 50 B	16
1,25	44303	12	1333	14,7	T 50 B	16
1	44304	15	1067	18,4	T 50 B	16
1	44305	18	889	22,1	T 50 B	16
0,63	44306	24	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

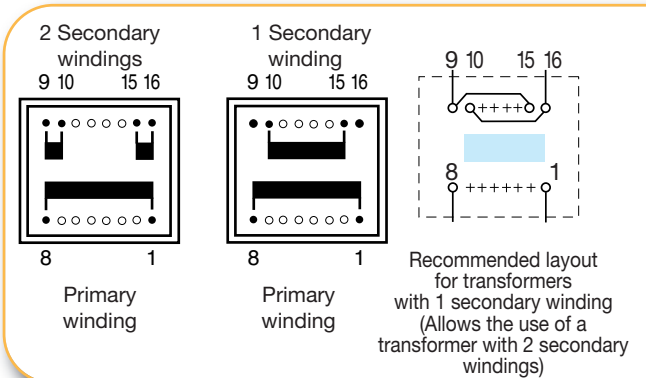


PRIMARY VOLTAGE 117 V

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

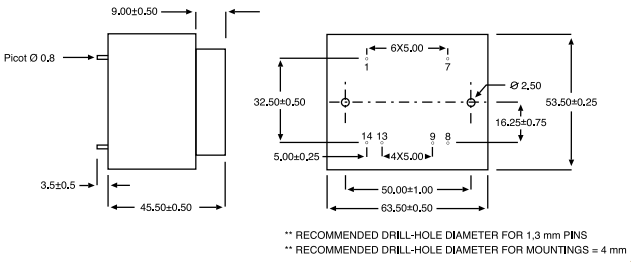


myrra
an acal group company

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



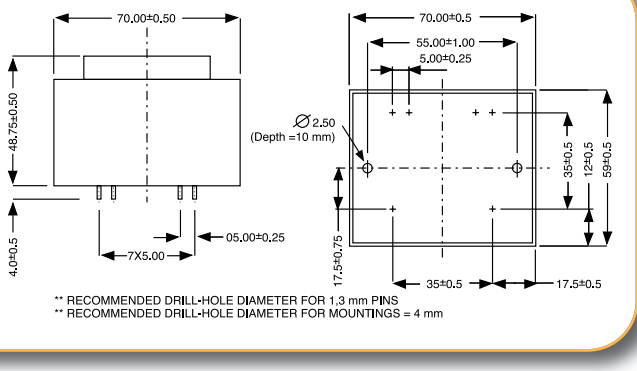
PRIMARY VOLTAGE 230 V

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

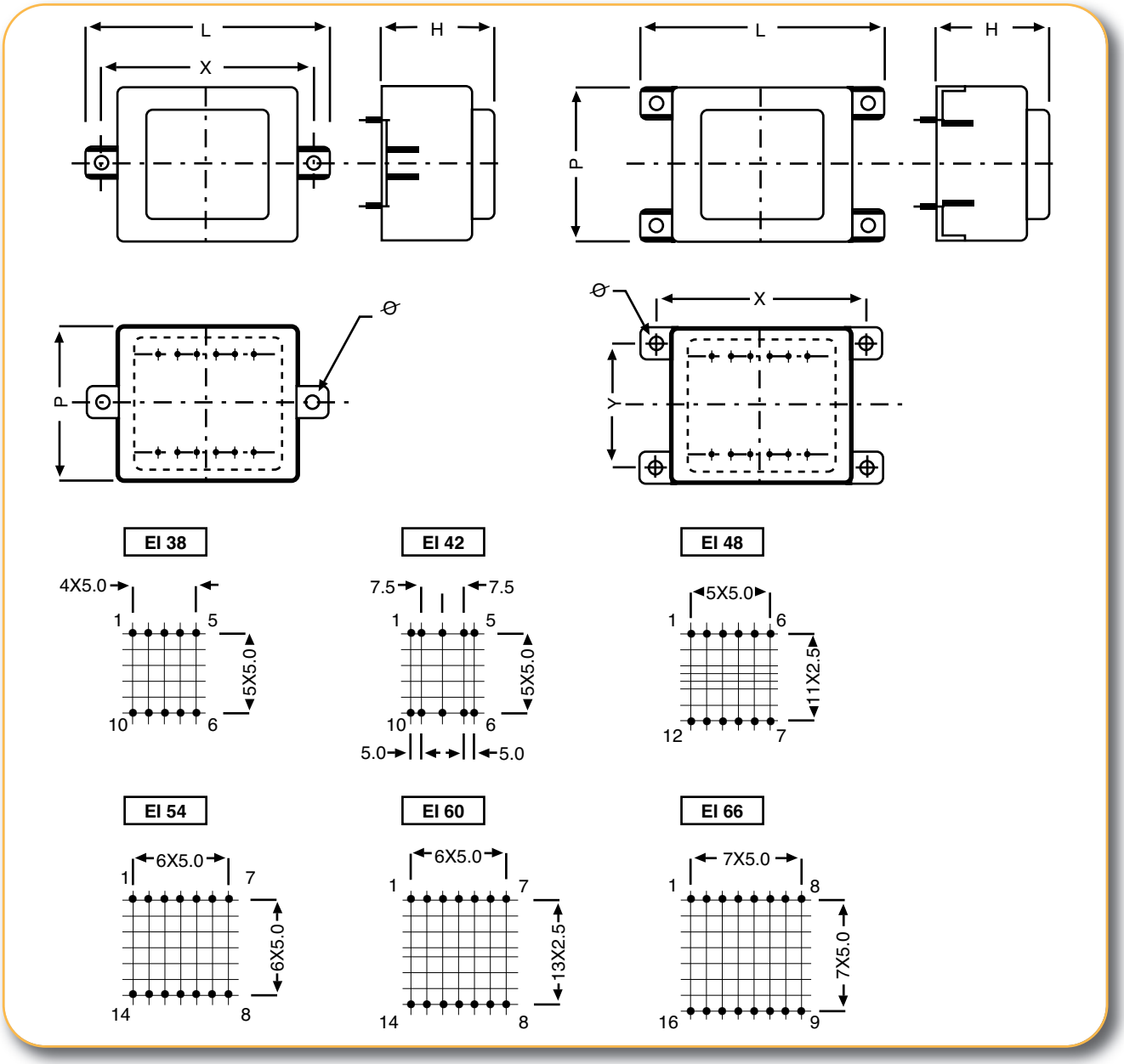
- 30 V and 36 V models are VDE EN 61558-2-6 certified (production on request)
- Insulation voltage 4 KV
- 100 % tested production
- Certification : CCA procedure on request

*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)

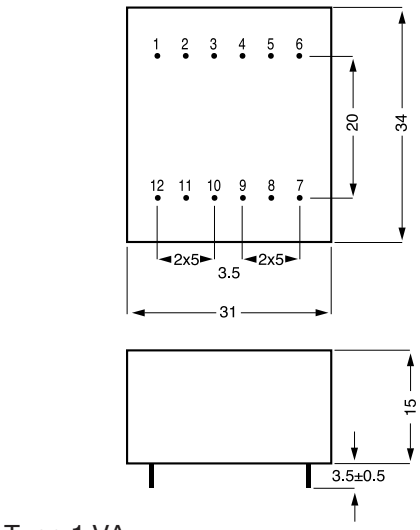
These models are not available on stock.

EN 61558-2-6 EN 60950 UL 5085

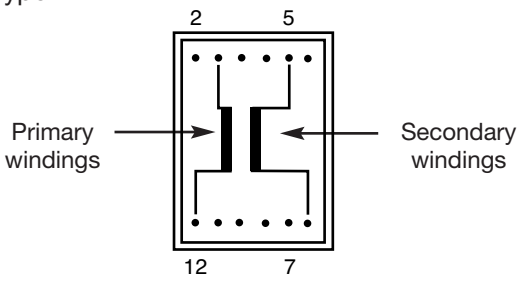
1 VA

- 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

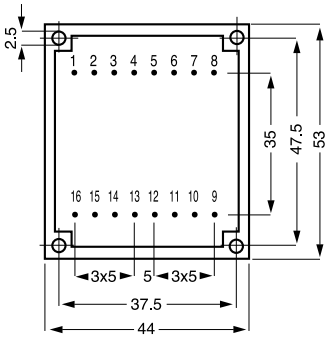
QUALITY IN SERIES

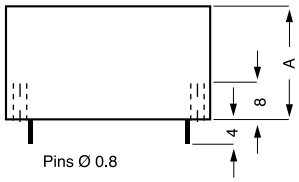
PRIMARY VOLTAGE 115 V - 230 V

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

EN 61558-2-6

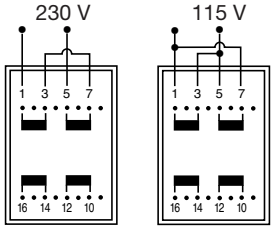
- 115 V- 230 V supply voltage by series/parallel connection
- Vacuum filling
- Two compartments bobbins
- Degree of protection IP 00
- Resin class UL 94 VO



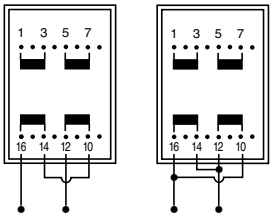


CIRCUIT	RATING	DIMENSION A	WEIGHT
UI 30 x 5,5	2 VA/3 VA	A = 17 mm	125 g
UI 30 x 7,5	4 VA	A = 19 mm	150 g
UI 30 x 10,5	6 VA	A = 22 mm	185 g
UI 30 x 16,5	10 VA	A = 28 mm	260 g

Possible primary connections



Possible secondary connections



Secondary voltage doubled

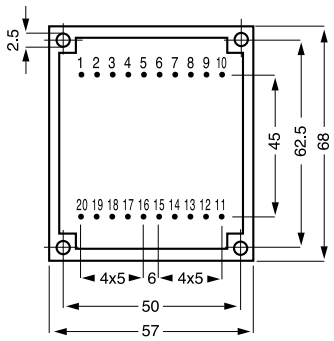
Double the secondary current

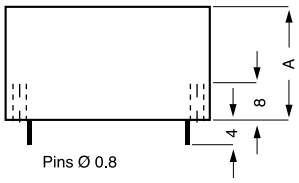
QUALITY IN SERIES

myrra an acal group company

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

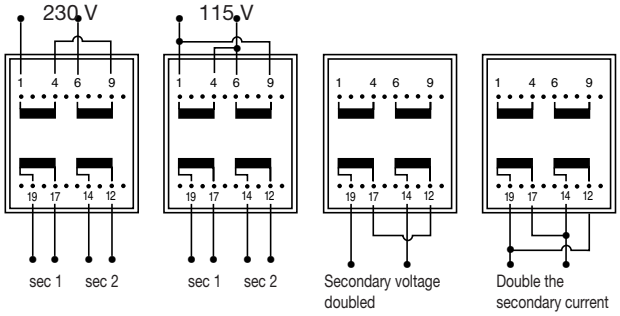




CIRCUIT	RATING	DIMENSION A	WEIGHT
UI 39 x 8	10 VA	A = 22 mm	285 g
UI 39 x 10,2	14 VA	A = 24 mm	335 g
UI 39 x 13,5	18 VA	A = 27 mm	405 g
UI 39 x 17	24 VA	A = 31 mm	480 g
UI 39 x 21	30 VA	A = 35 mm	550 g

Possible primary connections

Possible secondary connections



PRIMARY VOLTAGE 115 V - 230 V

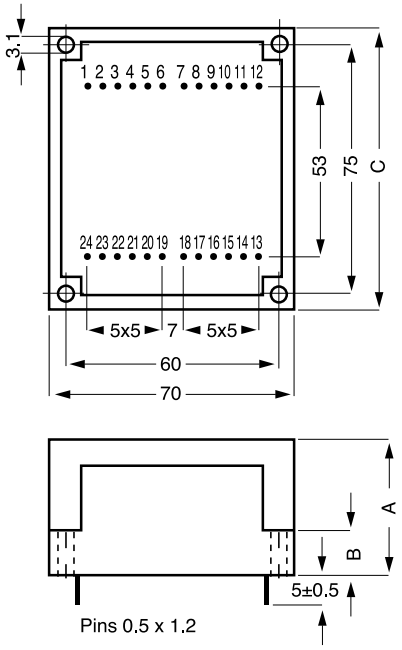
Primary protection 115 V/230 V mA	Reference	Secondary voltage V	Secondary current m A	No-load voltage V	Ambient Temperature °C
UI 39 x 8					**10 VA**
125/63	45037	2 x 6	2 x 833	2 x 8,2	T 50 B
125/63	45038	2 x 9	2 x 555	2 x 12,3	T 50 B
125/63	45039	2 x 12	2 x 416	2 x 16,4	T 50 B
125/63	45040	2 x 15	2 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

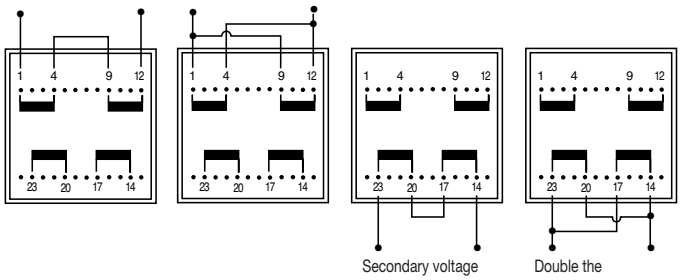


CIRCUIT	RATING	A	B	C	WEIGHT
UI 48 x 17	40 VA	38,5	13,5	83	760 g
UI 48 x 26	60 VA	48,5	14,5	86	1060 g

Possible primary connections

230 V 115 V

Possible secondary connections



QUALITY IN SERIES

myrra an acal group company

SIDE-MOUNTING TRANSFORMERS

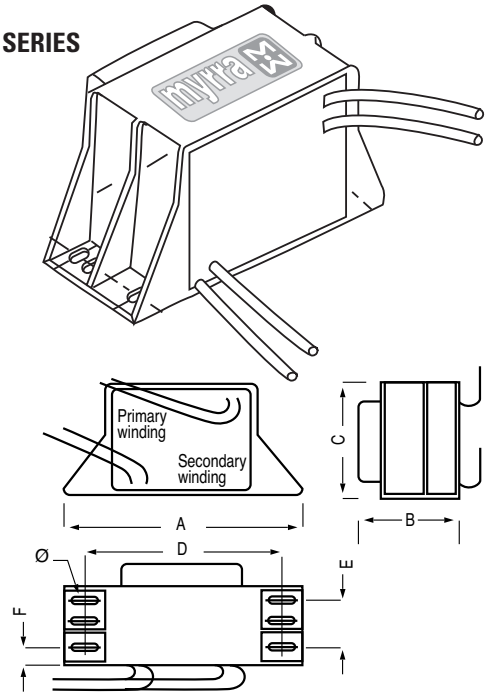
- **FLF / FLC SERIES**
- Primary voltage : 230 V 50/60 Hz
- Secondary voltage : 12 V ou 24 V
- Maximum ambient temperature : + 40 °C
- Insulation class : B
- Insulation voltage : 4 kV
- Standards applicable : VDE 0570 - EN 61558 - UL 5085
- Degree of protection IP 00
- Prepared for protection class II
- 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

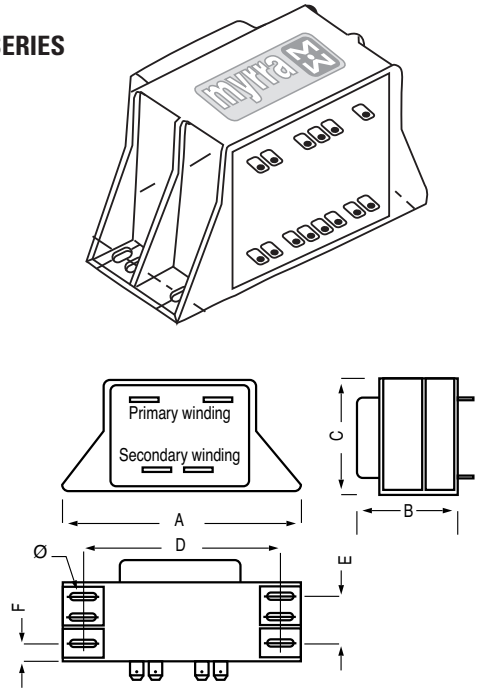
- **FLC SERIES** : connection by «faston» connectors

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)

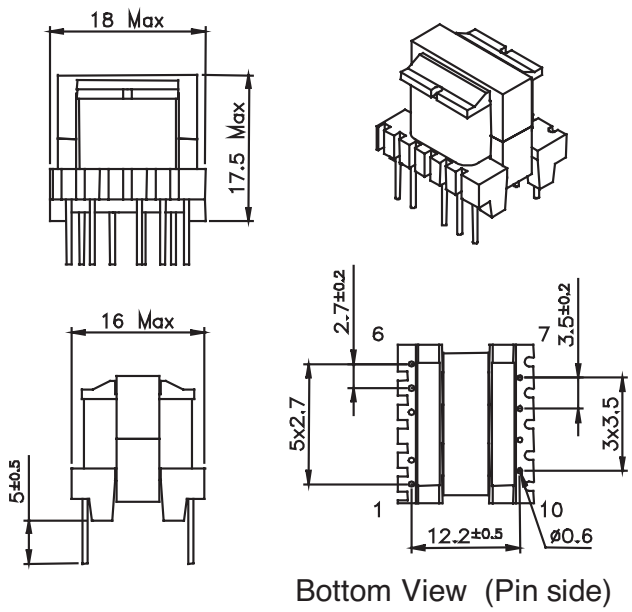
MYRRA Part N°	CORE SIZE	Max. Output Power	Outputs				
		Watts	Vdc nominal voltage				
74000	E16	5w	5v	12v			
74001	E16	6w	5v				
74002	E16	6w	12v				
74003	E16	5w	3.3v	5v			
74010	E16	12w	5v	12v			
74014	E16	12w	24v	24v			
74015	E16	12w	5v	15v	24v		
74020	EL19	18w	5v	12v			
74021	EL19	18w	5v	12v			
74023	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	
74080	EF20	24w	12v	12v			
74081	EF20	20w	3.3v	5v	12v		
74082	EF20	20w	5v	5v			
74090	E16	1.5w	5v				
74091	E16	1.5w	12v				
74092	E16	3.1w	5v				
74093	E16	3.1w	12v				
74094	E16	9w	5v				
74095	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.

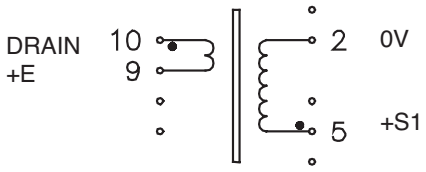
Transformer Reference		IC Manufacturer	Series & References
74090 **74091** **74092** **74093** **74094** **74095**	**No aux. Winding**	**PI**	TNY Series LNK XT Series

74000 **74001** **74002** **74003** **74004** **74005** **74010** **74014** **74015** **74020** **74021** **74023** **74080** **74081** **74082** **74087** **74088** **74089** **74030** **74032** **74040** **74043** **74050** **74060** **74070**	**With aux. Winding**	**ONSEMI**	NCP 1014 NCP 3065 etc.
		PI	TOP Series LNK Series
		NXP	TEA1530 TEA1351 TEA3065 etc.
		ST	Viper Series
		FAIRCHILD	FAN102 FAN400 FSEZ130 FSEZ1213 etc.
		ON Bright	OB2535 OB2212 OB2361 etc.

- Primary / Secondary Insulation ≥ 4000V
- Creepage distance Primary / Secondary ≥ 6mm
- Ambient temperature < 85°C
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



Bottom View (Pin side)



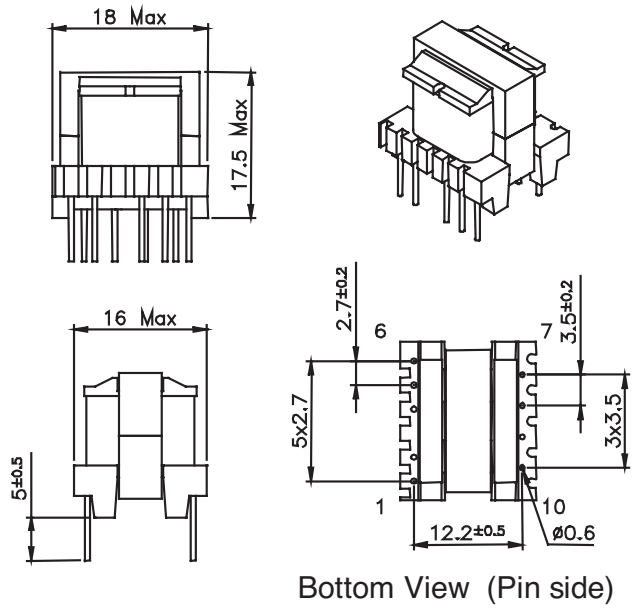
Pin 3 Removed
PCB Drilling Diameter = 1.1mm

MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74090	1.5 w	Pri	10 – 9	228	85 - 265Vrms	0.28 Apeak	6000µH
		S1	5 – 2	16	3.3 – 6 Vdc	0.4 Adc	
74091	1.5 w	Pri	10 – 9	228	85 - 265Vrms	0.28 Apeak	6000µH
		S1	5 – 2	28	7.5 – 15 Vdc	0.2 Adc	

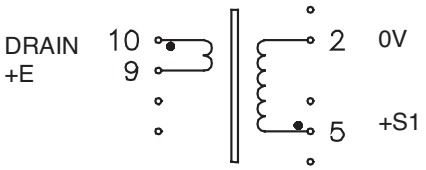
Examples of application with Integrated Circuits :

MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74090	Power Integrations	85 - 265Vrms	1.5w	44kHz
74091	Power Integrations	85 - 265Vrms	1.5w	44kHz

- Primary / Secondary Insulation ≥ 4000V
- Creepage distance Primary / Secondary ≥ 6mm
- Ambient temperature < 70°C
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



Bottom View (Pin side)



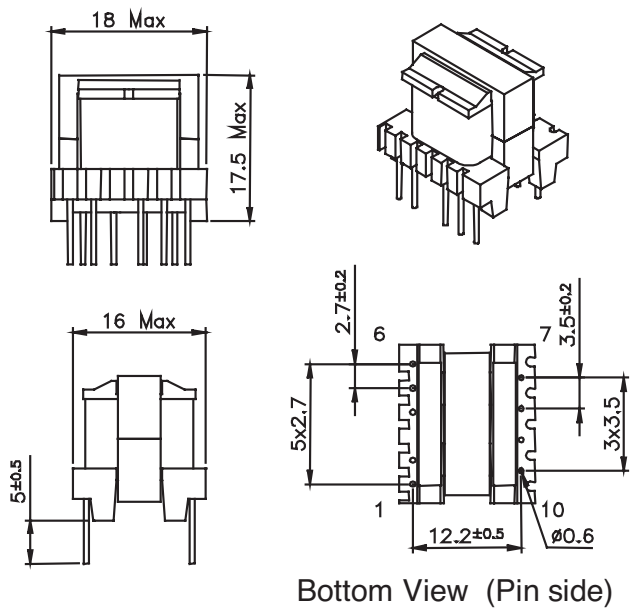
Pin 3 Removed
PCB Drilling Diameter = 1.1mm

MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74092	3.1 w	Pri	10 – 9	191	85 - 265Vrms	0.34 Apeak	4200µH
		S1	5 – 2	13	3.3 – 6 Vdc	0.9 Adc	
74093	3.1 w	Pri	10 – 9	191	85 - 265Vrms	0.34 Apeak	4200µH
		S1	5 – 2	24	7.5 – 15 Vdc	0.4 Adc	

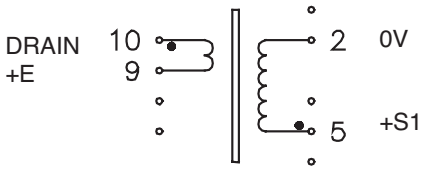
Examples of application with Integrated Circuits :

MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74092	Power Integrations	85 - 265Vrms	3.1w	44kHz
74093	Power Integrations	85 - 265Vrms	3.1w	44kHz

- Primary / Secondary Insulation ≥ 4000V
- Creepage distance Primary / Secondary ≥ 6mm
- Ambient temperature < 60°C
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



Bottom View (Pin side)



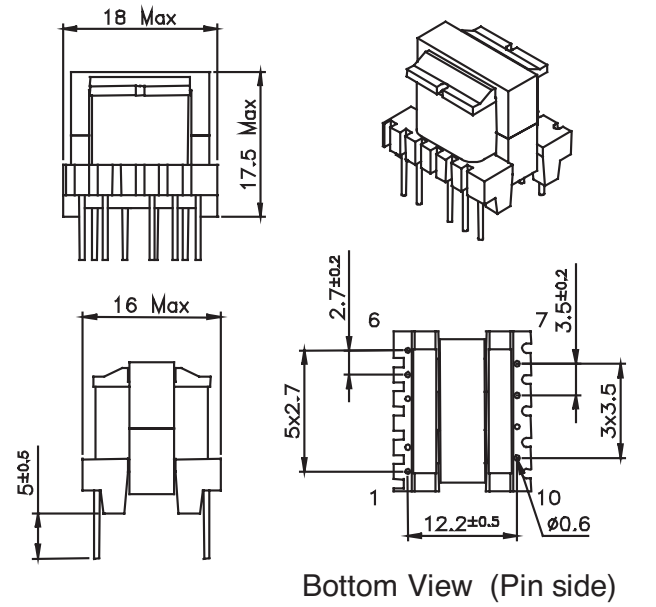
Pin 3 Removed
PCB Drilling Diameter = 1.1mm

MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74094	9 w	Pri	10 – 9	135	85 - 265Vrms	0.48 Apeak	2100µH
		S1	5 – 2	9	3.3 – 6 Vdc	1.5 Adc	
74095	9 w	Pri	10 – 9	135	85 - 265Vrms	0.48 Apeak	2100µH
		S1	5 – 2	17	7.5 – 15 Vdc	0.9 Adc	

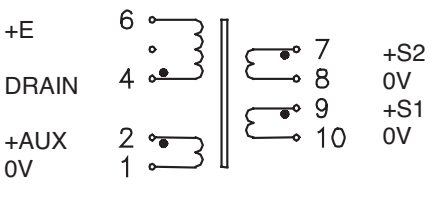
Examples of application with Integrated Circuits :

MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74094	Power Integrations	85 - 265Vrms	4.2w	44kHz
	Power Integrations	85 - 265Vrms	5w	132kHz
	Power Integrations	85 - 265Vrms	9w	132kHz
74095	Power Integrations	85 - 265Vrms	5w	44kHz
	Power Integrations	85 - 265Vrms	5w	132kHz
	Power Integrations	85 - 265Vrms	9w	132kHz

- Primary / Secondary Insulation ≥ 4000V
- Primary / Auxiliary Insulation ≥ 1500V
- Creepage distance Primary / Secondary ≥ 6mm
- Ambient temperature < 70°C
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



Bottom View (Pin side)



74000

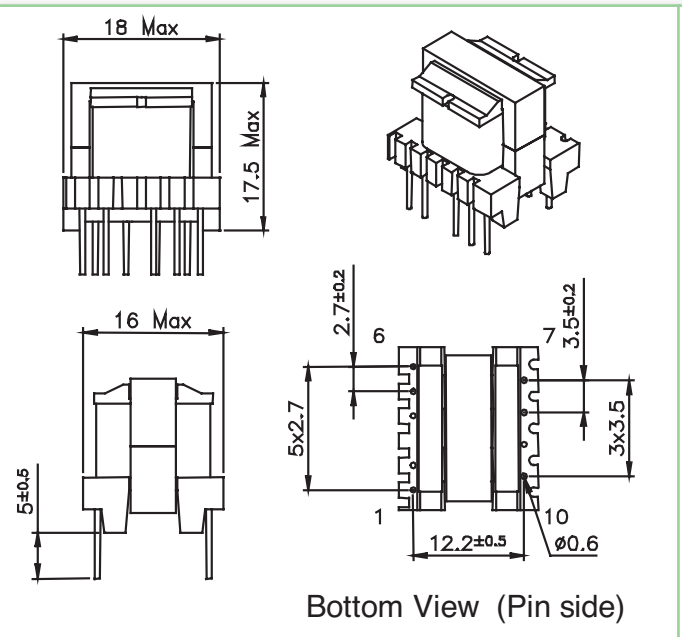
PIN 3 Removed
PCB Drilling Diameter = 1.1mm

MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74000	5 w	Pri	4 - 6	138	85 - 265Vrms	0.27 Apeak	3900µH
		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	

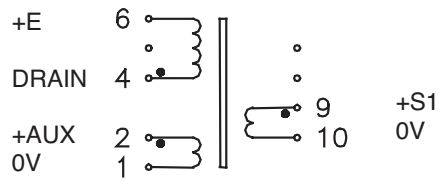
Examples of application with Integrated Circuits :

MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74000	Power Integrations	85 - 265Vrms	5w	132kHz
	ST Microelectronics	85 - 265Vrms	4w	70kHz

- Primary / Secondary Insulation ≥ 4000V
- Primary / Auxiliary Insulation ≥ 1500V
- Creepage distance Primary / Secondary ≥ 6mm
- Ambient temperature < 60°C
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



Bottom View (Pin side)



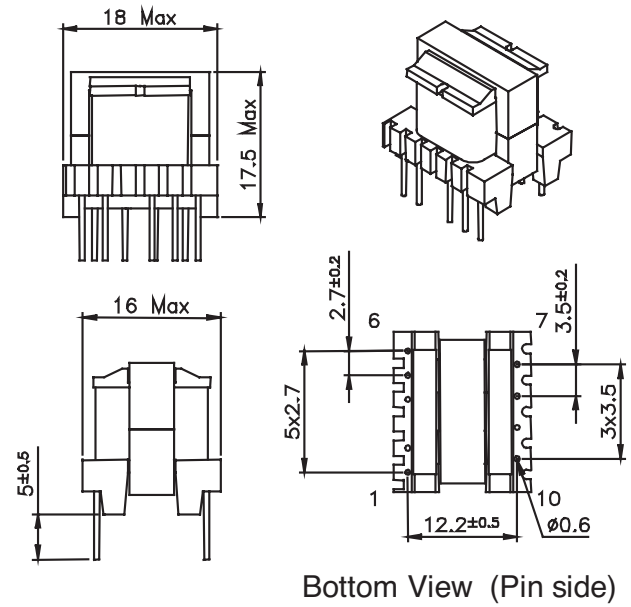
PIN 3 Removed
PCB Drilling Diameter = 1.1mm

MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74001	6 w	Pri	4 - 6	138	85 - 265Vrms	0.35 Apeak	3000µH
		Aux	2 - 1	20	8 – 16 Vdc	0.1 Adc	
		S1	9 - 10	8	3 – 6 Vdc	1.2 Adc	
74002	6 w	Pri	4 - 6	150	85 - 265Vrms	0.38 Apeak	3000µH
		Aux	2 - 1	22	8.5 – 17 Vdc	0.1 Adc	
		S1	9 - 10	24	9 – 18 Vdc	0.5 Adc	

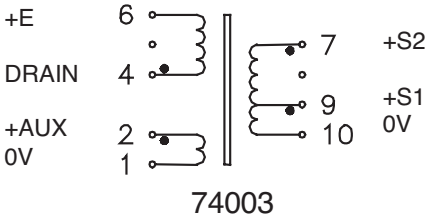
Examples of application with Integrated Circuits :

MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74001	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
74002	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

- Primary / Secondary Insulation ≥ 4000V
- Primary / Auxiliary Insulation ≥ 1500V
- Creepage distance Primary / Secondary ≥ 6mm
- Ambient temperature < 60°C
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



Bottom View (Pin side)



74003

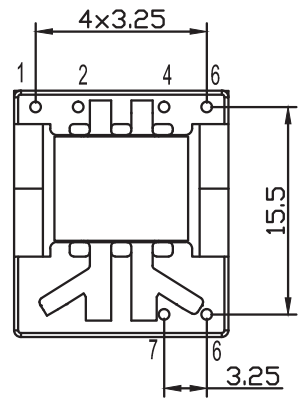
PIN 3 Removed
PCB Drilling Diameter = 1.1mm

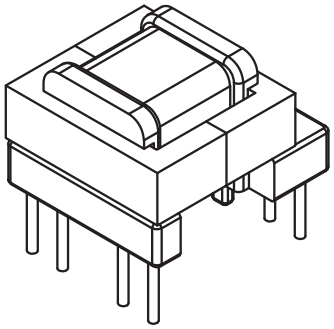
MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74003	6 w	Pri	4 - 6	120	85 - 265Vrms	0.3 Apeak	3000µH
		Aux	2 - 1	17	8 – 16 Vdc	0.1 Adc	
		S1	9 - 10	5	2 – 4 Vdc	1.8 Adc	
		S2	7 - 10	7	3 – 6 Vdc	1.2 Adc	

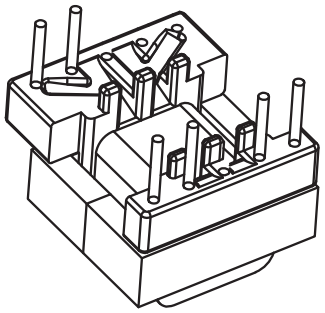
Examples of application with Integrated Circuits :

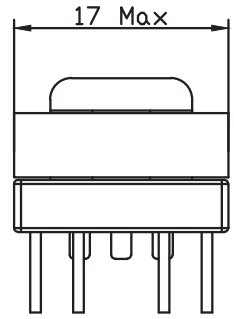
MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74003	Power Integrations	85 - 265Vrms	5w	132kHz
	ST Microelectronics	85 - 265Vrms	6w	70kHz
	ST Microelectronics	85 - 265Vrms	3w	40kHz
	Motorola	85 - 265Vrms	6w	100kHz
	Infineon	185 - 265Vrms	6w	100kHz

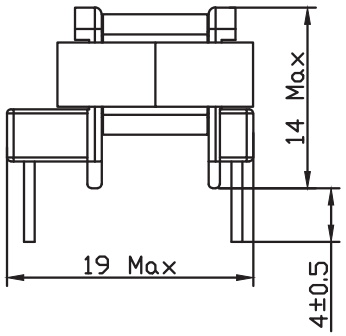
- Primary / Secondary Insulation ≥ 4000 V
- Primary / Auxiliary Insulation ≥ 1500 V
- Creepage distance Primary / Secondary ≥ 6mm
- Ambient temperature < 50°C
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94 V-0 listed materials

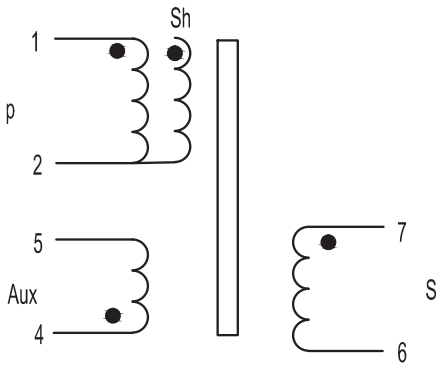












Pins 3,8,9 and 10 removed ,
PCB drilling diameter :1.1 mm,
Pins length :4.0±0.5

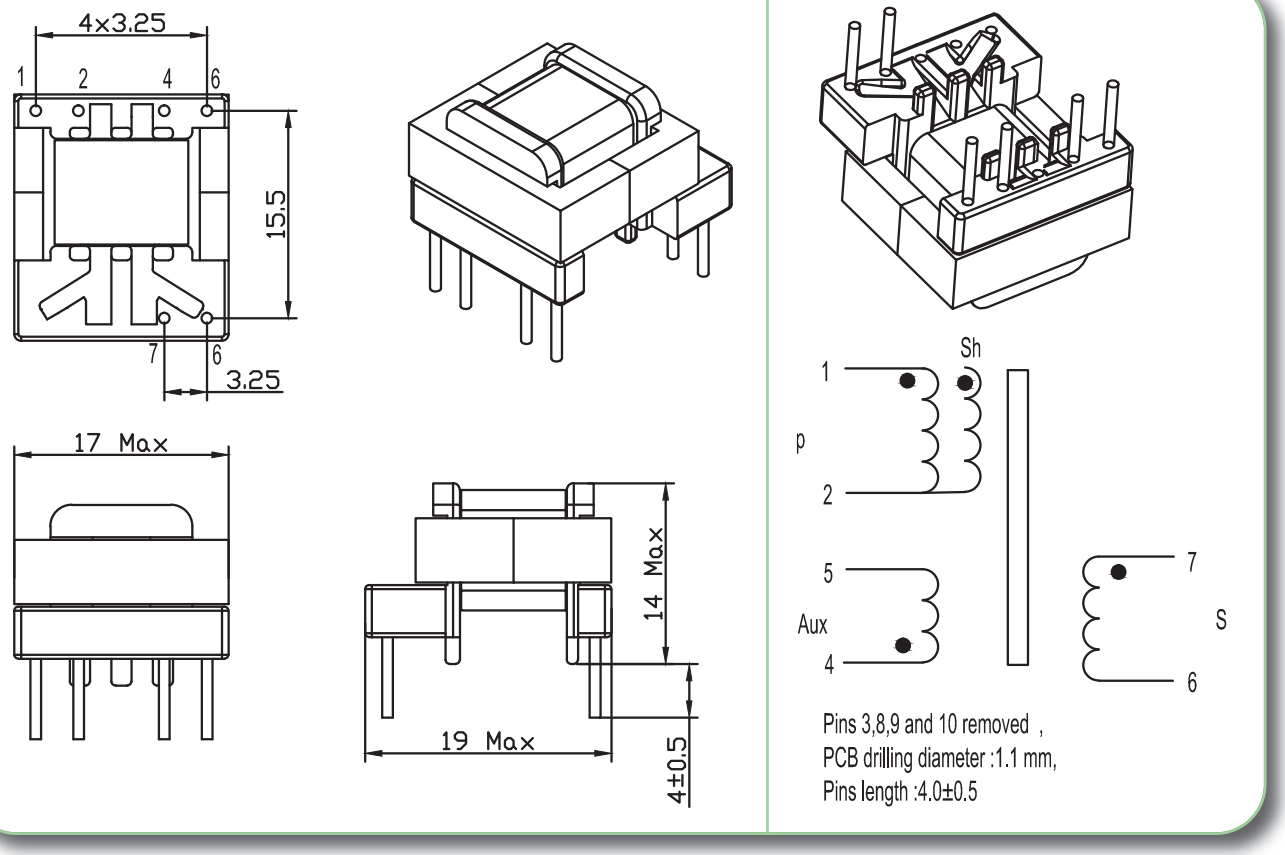
MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74004	1.7 w	Pri	1 - 2	108	85 - 265Vrms	0.28 Apeak	2700 µH
		Aux	5 - 4	25	22 Vdc	0.1 Adc	
		S	7 - 6	8	6 Vdc	0.5 Adc	
		Shield	NC - 2	8			

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.

- Primary / Secondary Insulation ≥ 4000 V
- Primary / Auxiliary Insulation ≥ 1500 V
- Creepage distance Primary / Secondary ≥ 6mm
- Ambient temperature < 50°C
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94 V-0 listed materials



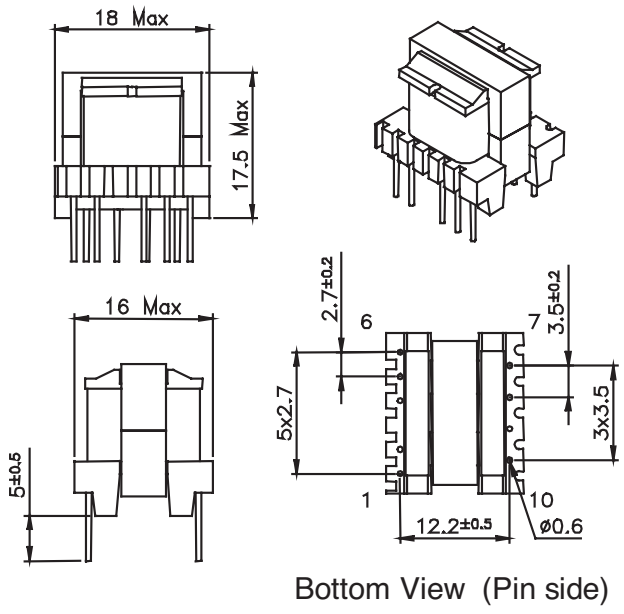
MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74005	1.7 w	Pri	1 - 2	108	85 - 265Vrms	0.28 Apeak	2700 µH
	Aux	5 - 4	25	22 Vdc	0.1 Adc		
	S	7 - 6	12	10 Vdc	0.2 Adc		
	Shield	NC - 2	8				

Examples of application with Integrated Circuits :

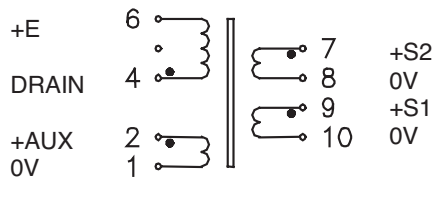
MYRRA P / N	Control IC Manufacturer	Control IC P / N	Input voltage	Power	Frequency
74005	Power Integrations	LNK562	185 - 265 Vrms	1.3 W	66 kHz
	Power integrations	LNK562	85 - 265 Vrms	1.3 W	66 kHz
	Power Integrations	LNK563	185 - 265 Vrms	1.7 W	83 kHz
	Power Integrations	LNK563	85 - 265 Vrms	1.7 W	83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

- Primary / Secondary Insulation ≥ 4000V
- Primary / Auxiliary Insulation ≥ 1500V
- Creepage distance Primary / Secondary ≥ 6mm
- Ambient temperature < 50°C
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



Bottom View (Pin side)



74010

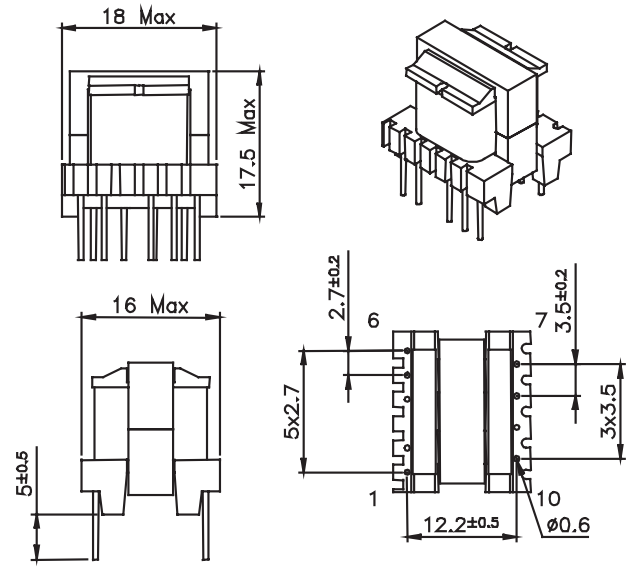
PIN 3 Removed
PCB Drilling Diameter = 1.1mm

MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74010	12 w	Pri	4 - 6	120	85 - 265Vrms	0.55 Apeak	1660µH
		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	

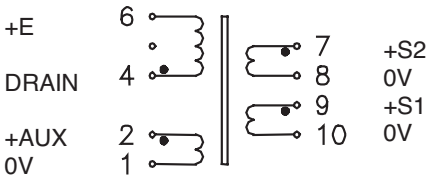
Examples of application with Integrated Circuits :

MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74010	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

- Primary / Secondary Insulation ≥ 4000V
- Primary / Auxiliary Insulation ≥ 1500V
- Creepage distance Primary / Secondary ≥ 6mm
- Ambient temperature < 50°C
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



Bottom View (Pin side)



74014

PIN 3 Removed
PCB Drilling Diameter = 1.1mm

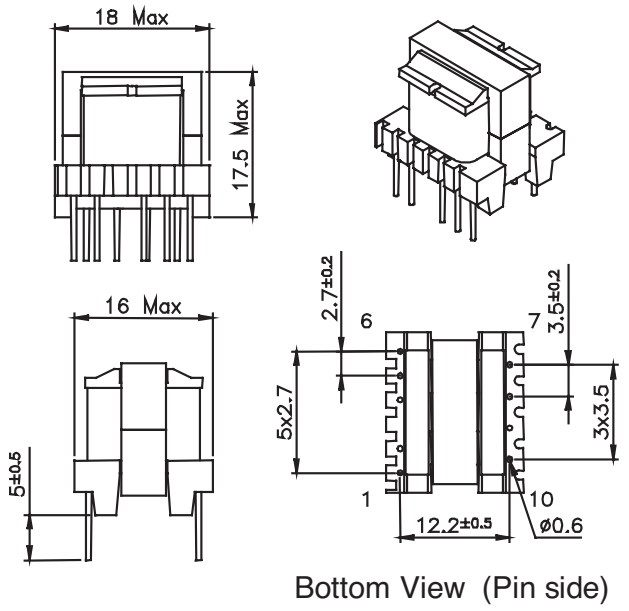
MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74014	12 w	Pri	4 - 6	120	85 - 265Vrms	0.5 Apeak	1800µH
		Aux	2 - 1	17	9 – 18 Vdc	0.2 Adc	
		S1	9 - 10	27	15 – 30 Vdc	0.4 Adc	
		S2	7 - 8	27	15 – 30 Vdc	0.4 Adc	

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

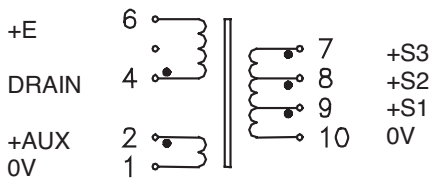
Examples of application with Integrated Circuits :

MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74014	Power Integrations	185 - 265Vrms	12w	
	Power Integrations	85 - 265Vrms	8w	
	Power Integrations	185 - 265Vrms	12w	132kHz
	Power Integrations	85 - 265Vrms	8w	132kHz

- Primary / Secondary Insulation ≥ 4000V
- Primary / Auxiliary Insulation ≥ 1500V
- Creepage distance Primary / Secondary ≥ 6mm
- Ambient temperature < 50°C
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



Bottom View (Pin side)



74015

PIN 3 Removed
PCB Drilling Diameter = 1.1mm

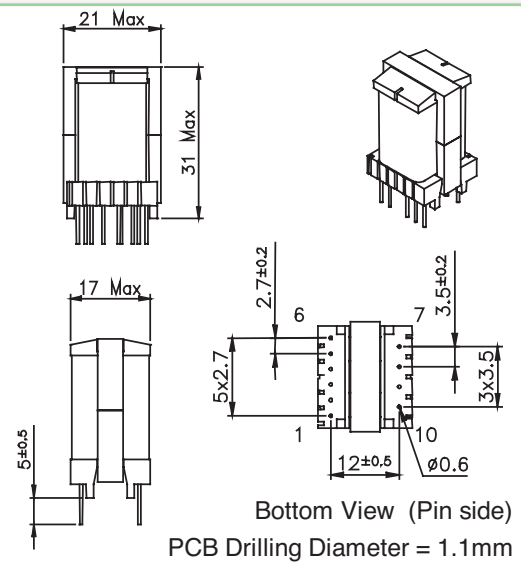
MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74015	12 w	Pri	4 - 6	120	85 - 265Vrms	0.5 Apeak	1800µH
		Aux	2 - 1	14	12 Vdc	0.2 Adc	
		S1	9 - 10	6	5 Vdc	1.5 Adc	
		S2	8 - 10	17	15 Vdc	0.6 Adc	
		S3	7 - 10	27	24 Vdc	0.4 Adc	

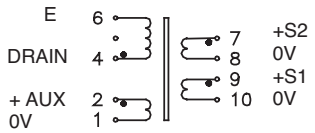
Examples of application with Integrated Circuits :

MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74015	Power Integrations	185 - 265Vrms	10w	
	Power Integrations	85 - 265Vrms	8w	
	Power Integrations	185 - 265Vrms	12w	132kHz
	Power Integrations	85 - 265Vrms	9w	132kHz

myrra
an acal group company

- Primary / Secondary Insulation ≥ 4000V
- Primary / Auxiliary Insulation ≥ 1500V
- Creepage distance Primary / Secondary ≥ 6mm
- Ambient temperature < 50°C
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials





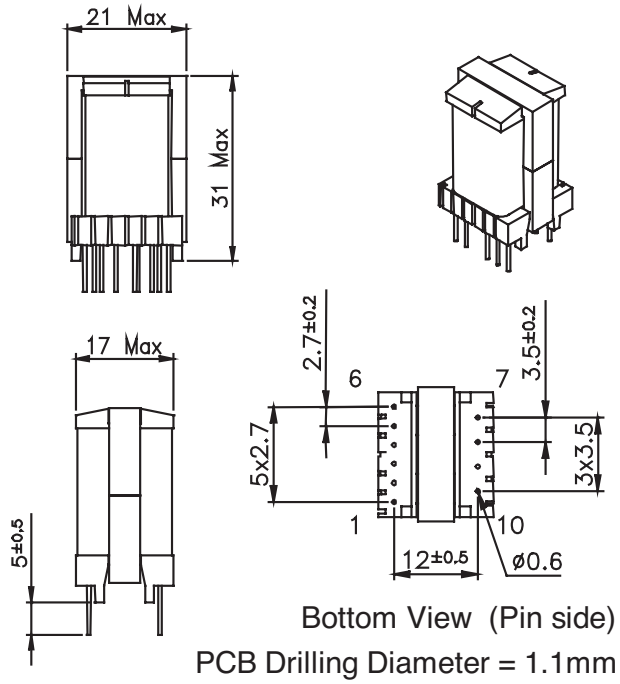
74020 / 74021

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	

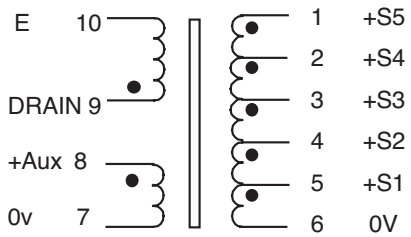
Examples of application with Integrated Circuits :

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 IEC950, IEC335, 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	

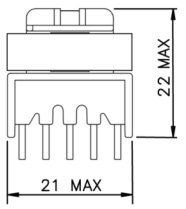
Examples of application with Integrated Circuits :

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

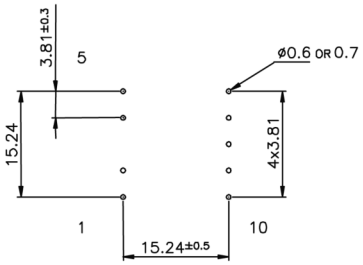
myrra
an acal group company

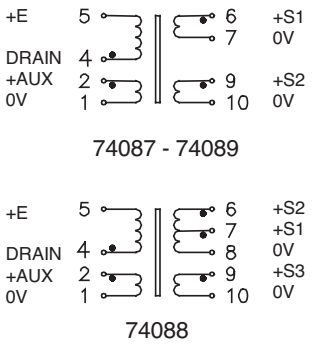
- Primary / Secondary Insulation ≥ 4000V • Primary / Auxiliary Insulation ≥ 1500V
- Creepage distance Primary / Secondary ≥ 8mm
- Ambient temperature < 50°C
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials

74087 - 74088 - 74089 // Drawing



Pinout - Viewed from pins side





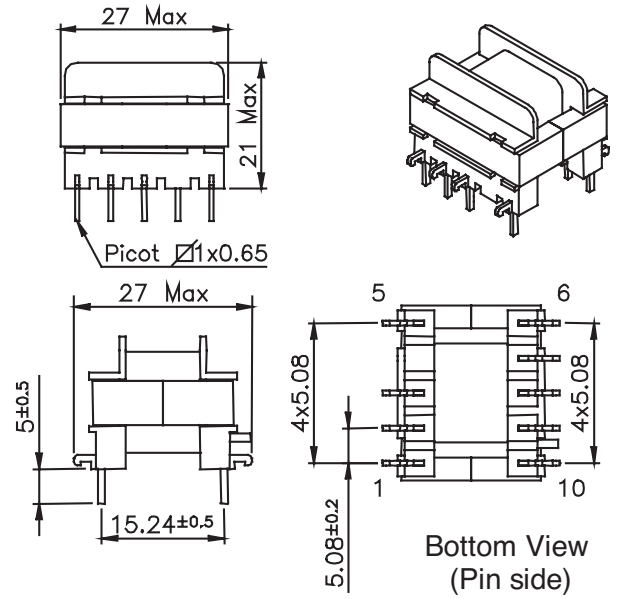
PIN 3 Removed
PCB Drilling Diameter = 1.2mm

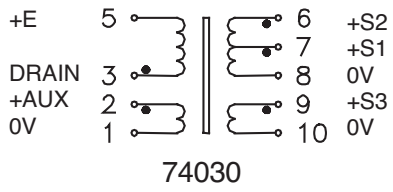
MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74087	24 w	Pri	4 – 5	86	85 - 265Vrms	1.0 Apeak	1000µH
		Aux	2 – 1	12	11 - 18 Vdc	0.3 Adc	
		S1	6 – 7	10	9 – 15 Vdc	1.5 Adc	
		S2	9 – 10	10	9 – 15 Vdc	1.5 Adc	
74088	20 w	Pri	4 – 5	80	85 - 265Vrms	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	

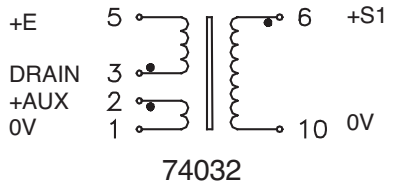
Examples of application with Integrated Circuits :

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 IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials







PIN 4 Removed
PCB Drilling Diameter = 1.4mm

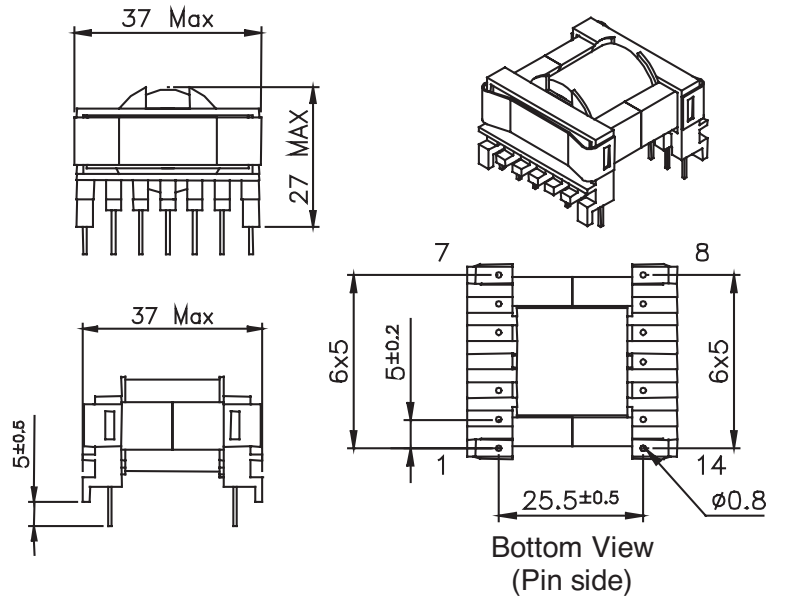
MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74030	30 w	Pri	3 – 5	70	85 - 265Vrms	1.5 Apeak	750µH
		Aux	2 – 1	8	7 – 14.5 Vdc	1 Adc	
		S1	7 – 8	4	3.3 - 7	3 Adc	
		S2	6 – 8	9	8 – 16 Vdc	1.5 Adc	
		S3	9 – 10	9	8 – 16 Vdc	1.5 Adc	
74032	35 w	Pri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

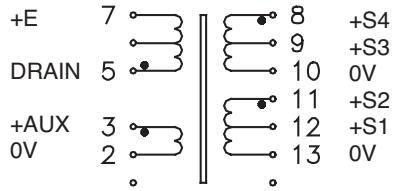
Note for 74030 : S2 and S3 can be connected in series or in parallel

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

- Primary / Secondary Insulation ≥ 4000V
- Primary / Auxiliary Insulation ≥ 1500V
- Creepage distance Primary / Secondary ≥ 8mm
- Ambient temperature < 50°C
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials





PIN 4 Removed
PCB Drilling Diameter = 1.3mm

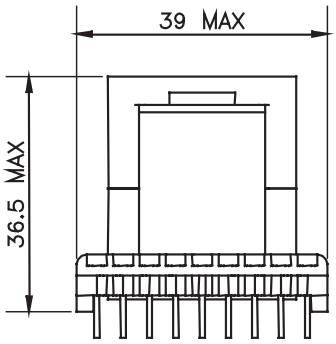
MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74040	60 w	Pri	5 – 7	50	85 - 265Vrms	3.0 Apeak	500µH
		Aux	3 – 2	6	7 – 14.5 Vdc	0.5 Adc	
		S1	12 – 13	3	3.3 - 7	4 Adc	
		S2	11 – 13	7	8 – 16.5 Vdc	2.5 Adc	
		S3	9 – 10	3	3.3 - 7	4 Adc	
		S4	8 - 10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

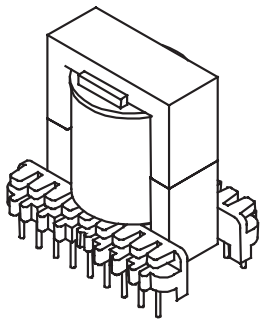
Note : S1 / S3 or S2 / S4 can be connected in series or in parallel

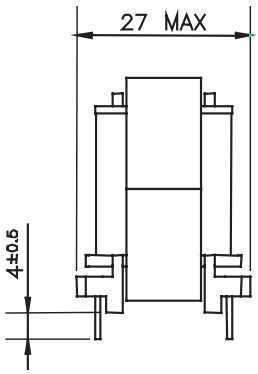
Examples of application with Integrated Circuits :

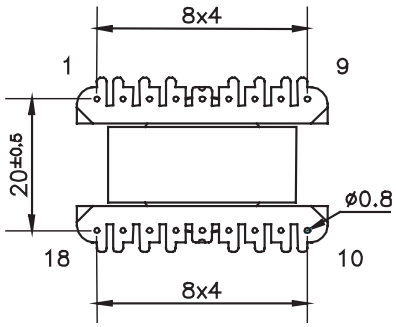
MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74040	Power Integrations	185 - 265Vrms	60w	66 or 132kHz
	Power Integrations	85 - 265Vrms	45w	66 or 132kHz
	ST Microelectronics	85 - 265Vrms	35w	100kHz
	ST Microelectronics	185 - 265Vrms	45w	100kHz
	Motorola	85 - 265Vrms	35w	100kHz
	Motorola	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 IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials

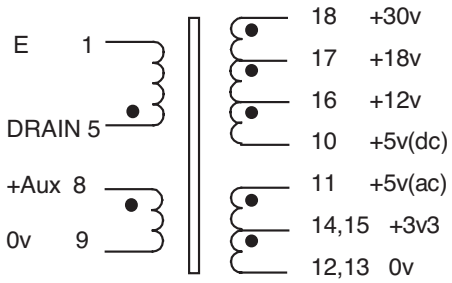








Bottom View (Pin side)



PCB Drilling Diameter = 1.3mm

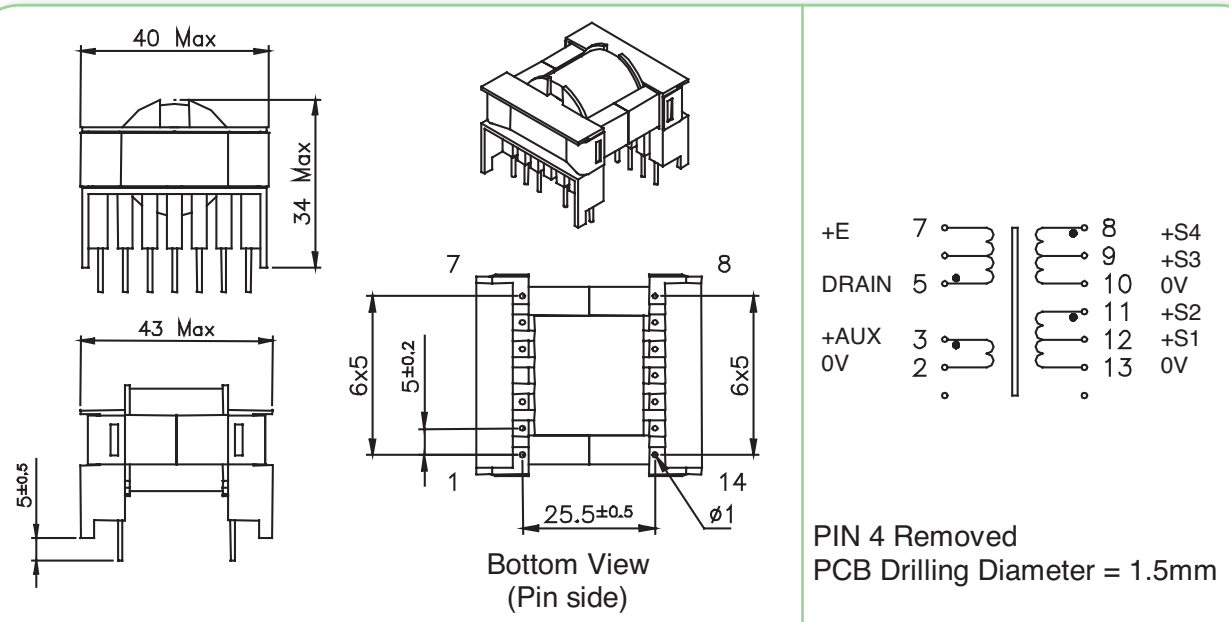
MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74043	60w	Pri	5 – 1	45	85 - 265Vrms	3 Apeak	500µH
		Aux	8 – 9	7	15 Vdc	0.5 Adc	
		S1	14+15 / 12+13	2	3.3 Vdc	S1+S2 : 7 Adc	
		S2	11 / 12+13	3	5 Vdc	S1+S2 : 7 Adc	
		S3	16 – 10	4	12 Vdc	2 Adc	
		S4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

myrra
an acal group company

- Primary / Secondary Insulation ≥ 4000V
- Primary / Auxiliary Insulation ≥ 1500V
- Creepage distance Primary / Secondary ≥ 8mm
- Ambient temperature < 50°C
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



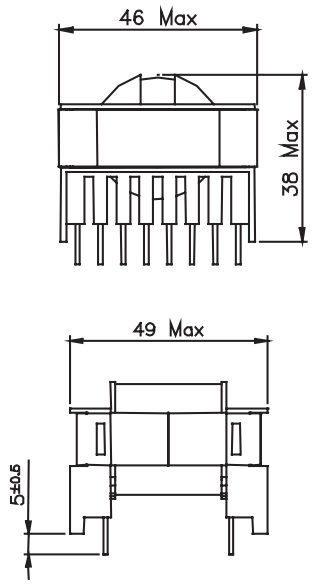
MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74050	90 w	Pri	5 – 7	36	85 - 265Vrms	2.8 Apeak	500µH
		Aux	3 – 2	4	7 – 14 Vdc	0.5 Adc	
		S1	12 – 13	2	3.3 – 6.5	5 Adc	
		S2	11 – 13	5	8.5 – 17 Vdc	3 Adc	
		S3	9 – 10	2	3.3 – 6.5	5 Adc	
		S4	8 - 10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

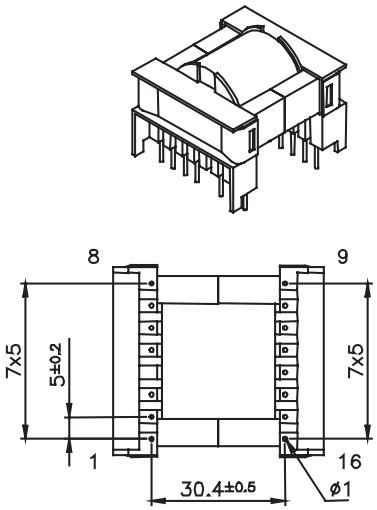
Note : S1 / S3 or S2 / S4 can be connected in series or in parallel

Examples of application with Integrated Circuits :

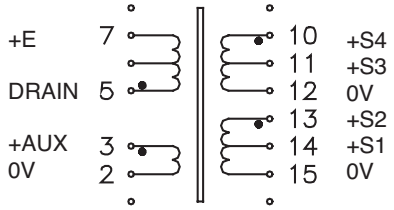
MYRRA P / N	Control IC Manufacturer	Input voltage	Power	Frequency
74050	Power Integrations	185 - 265Vrms	90w	132kHz
	Power Integrations	85 - 265Vrms	60w	66 or 132kHz
	ST Microelectronics	185 - 265Vrms	80w	70kHz
	ST Microelectronics	85 - 265Vrms	60w	70kHz
	Motorola	185 - 265Vrms	80w	100kHz
	Motorola	85 - 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 IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials





Bottom View
(Pin side)



PIN 4 Removed
PCB Drilling Diameter = 1.5mm

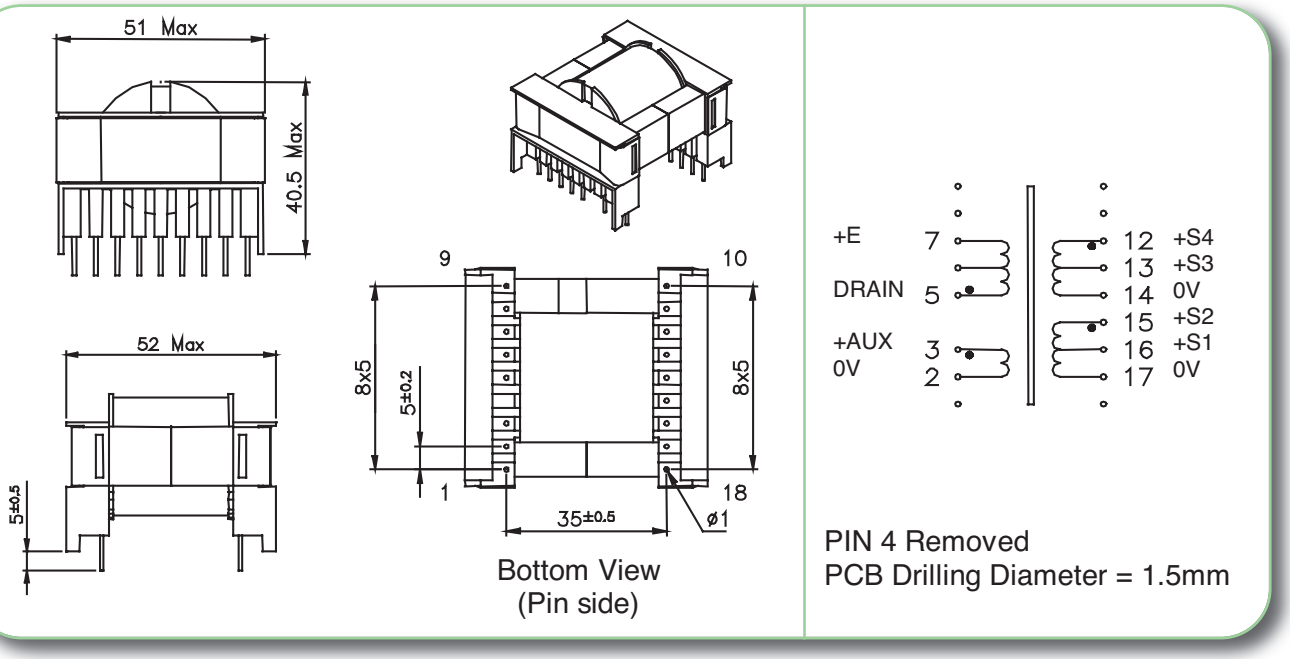
MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74060	140 w	Pri	5 – 7	36	85 - 265Vrms	4 Apeak	440µH
		Aux	3 – 2	4	7 – 14 Vdc	0.5 Adc	
		S1	14 – 15	2	3.3 – 6.5	5 Adc	
		S2	13 – 15	5	8.5 – 17 Vdc	5 Adc	
		S3	11 – 12	2	3.3 – 6.5	5 Adc	
		S4	10 – 12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

- Primary / Secondary Insulation ≥ 4000V
- Primary / Auxiliary Insulation ≥ 1500V
- Creepage distance Primary / Secondary ≥ 8mm
- Ambient temperature < 50°C
- Construction conforms to IEC950, IEC335, IEC61558-2-16 for reinforced insulation
- Exclusively uses UL94-V0 listed materials



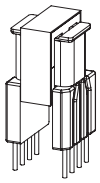
MYRRA P / N	Output Power maximum	Windings					
			Pins	Turns	Voltage	Current maximum	Inductance (+/-10%)
74070	180 w	Pri	5 – 7	38	85 - 265Vrms	8 Apeak	300µH
		Aux	3 – 2	4	7 – 14 Vdc	0.5 Adc	
		S1	16 – 17	2	3.3 – 6.5	6 Adc	
		S2	15 – 17	5	8.5 – 17 Vdc	5 Adc	
		S3	13 – 14	2	3.3 – 6.5	6 Adc	
		S4	12 – 14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

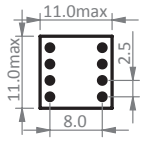
Note : S1 / S3 or S2 / S4 can be connected in series or in parallel

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

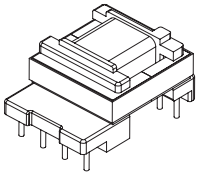
1W 2W 5W 10W

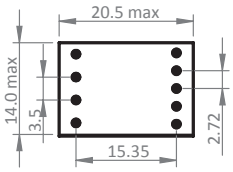




Heigth : 19.0mm max

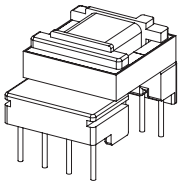
E 10
reinforced insulation
creepage distances: 6mm

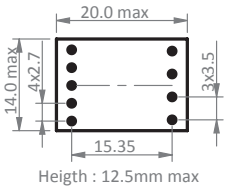




Heigth : 11mm max

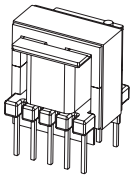
EF 12.6
reinforced insulation
creepage distances: 6mm

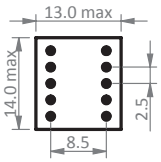




Heigth : 12.5mm max

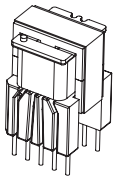
EF 12.6
reinforced insulation
creepage distances: 6mm

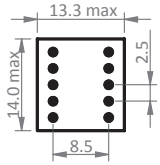




Heigth : 14.8mm max

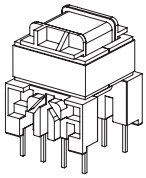
E 13
basic insulation

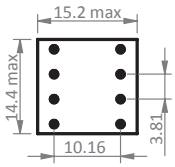




Heigth : 19.2mm max

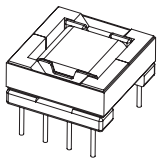
E 13
reinforced insulation
creepage distances: 6mm

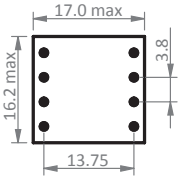




Heigth : 17.7mm max

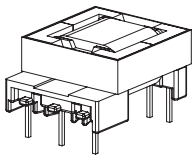
E 13
reinforced insulation
creepage distances: 6mm

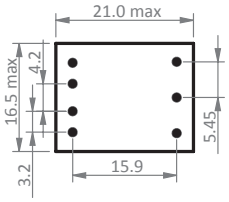




Heigth : 11mm max

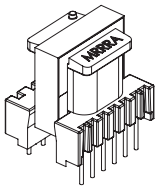
EFD 15
basic insulation

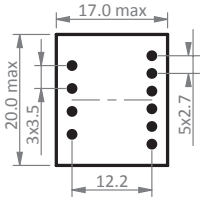




Heigth : 10.0mm max

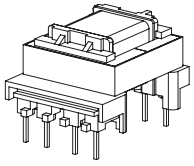
EFD 15
reinforced insulation
creepage distances: 6mm

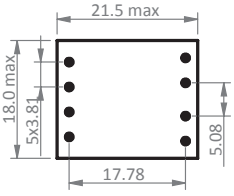




Heigth : 21.0 mm max

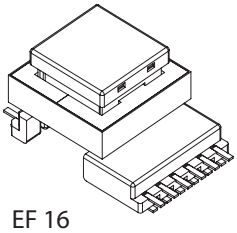
E 16
reinforced insulation
creepage distances: 6mm

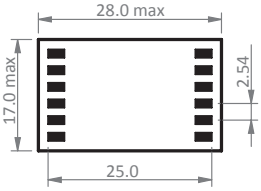




Heigth : 14.0mm max

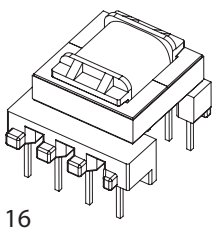
EF 16
reinforced insulation
creepage distances: 6mm

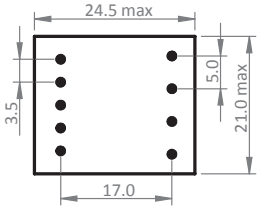




Heigth : 14.7mm max

EF 16
reinforced insulation
creepage distances: 6mm





Heigth : 17mm max

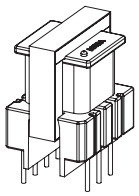
EF 16
reinforced insulation
creepage distances: 6mm

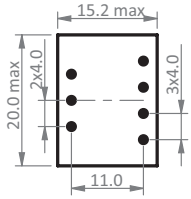
*non-exhaustive list

HIGH FREQUENCY FERRITE
POWER FERRITE TRANSFORMERS

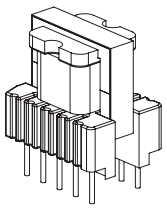
myrra
an acal group company

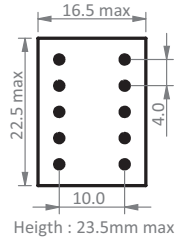
20W



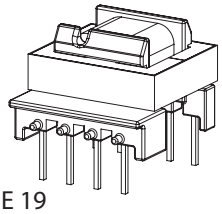


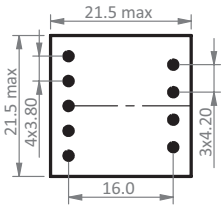
E 19
reinforced insulation
creepage distances: 6mm
Heigth : 23.5mm max



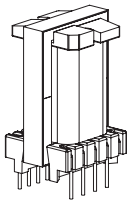


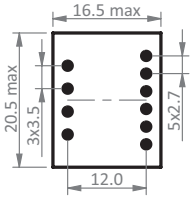
E 19
reinforced insulation
creepage distances: 6mm
Heigth : 23.5mm max



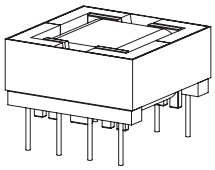


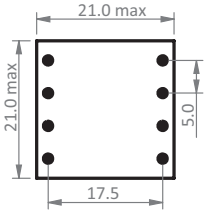
E 19
reinforced insulation
creepage distances: 6mm
Heigth : 15.0mm max



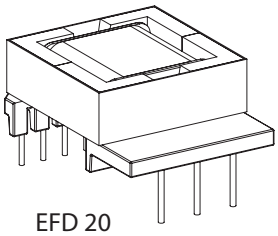


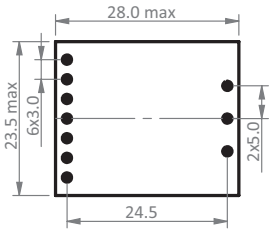
EL 19
reinforced insulation
creepage distances: 6mm
Heigth : 31.0mm max



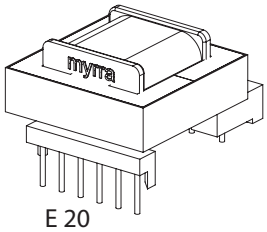


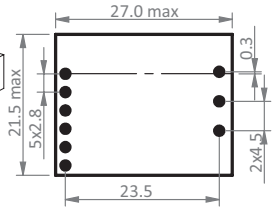
EFD 20
basic insulation
Heigth : 11.0mm max



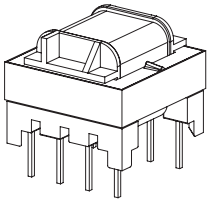


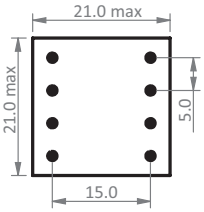
EFD 20
reinforced insulation
creepage distances: 6mm
Heigth : 11.5mm max



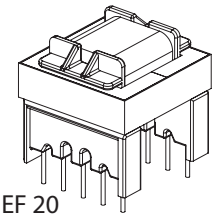


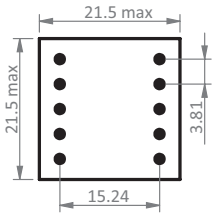
E 20
reinforced insulation
creepage distances: 6mm
Heigth : 13.0mm max



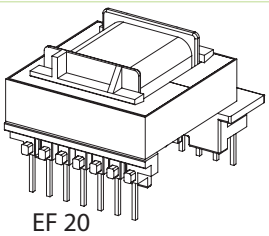


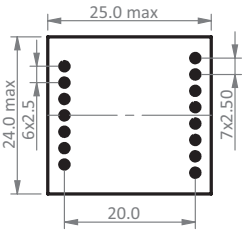
EF 20
basic insulation
Heigth : 16.0mm max



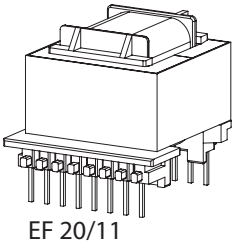


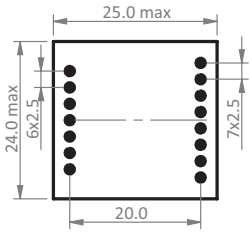
EF 20
reinforced insulation
creepage distances: 6mm
Heigth : 21.0mm max



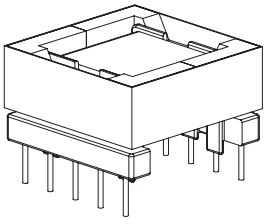


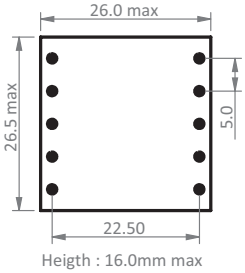
EF 20
reinforced insulation
creepage distances: 8mm
Heigth : 16.0mm max





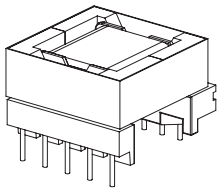
EF 20/11
reinforced insulation
creepage distances: 6mm
Heigth : 22.0mm max

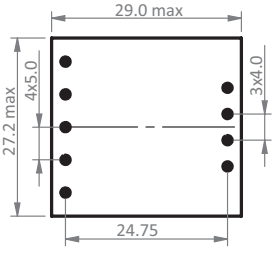




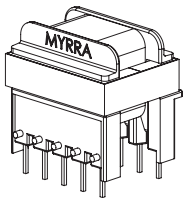
EFD 25
basic insulation
Heigth : 16.0mm max

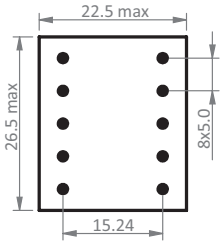
*non-exhaustive list



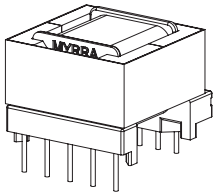


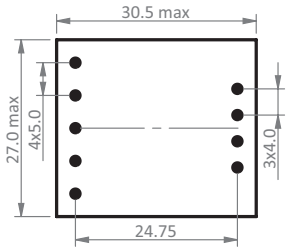
EFD 25
reinforced insulation
creepage distances: 6mm
Heigth : 19.2mm max



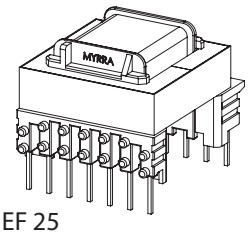


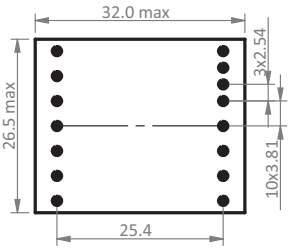
E 25
reinforced insulation
creepage distances: 8mm
Heigth : 26.5mm max



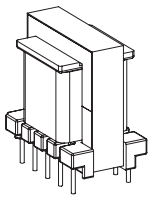


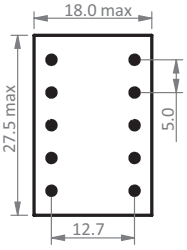
EVD 25
reinforced insulation
creepage distances: 6mm
Heigth : 23.0mm max



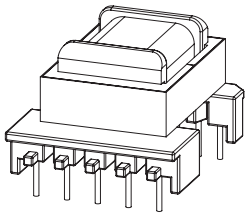


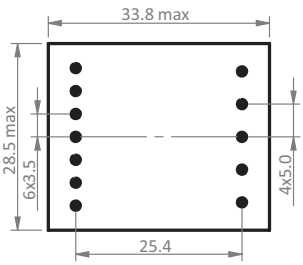
EF 25
reinforced insulation
creepage distances: 8mm
Heigth : 22.0mm max



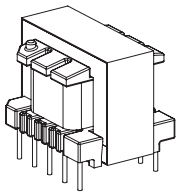


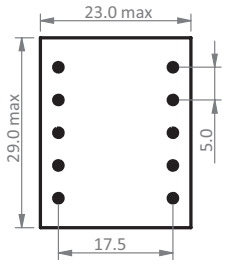
EF 25
reinforced insulation
creepage distances: 6mm
Heigth : 27.0mm max



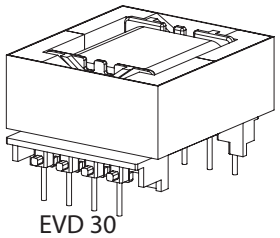


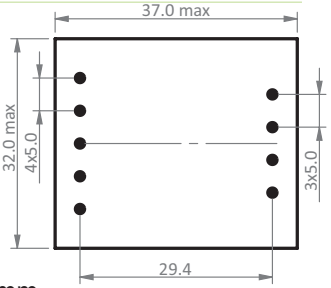
EF 25
reinforced insulation
creepage distances: 6mm
Heigth : 20.5mm max



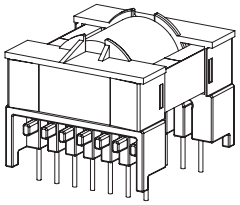


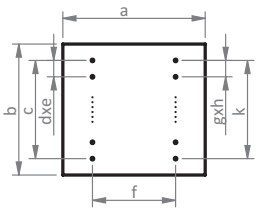
EI 28
reinforced insulation
creepage distances: 6mm
Heigth : 22.0mm max





EVD 30
reinforced insulation
creepage distances: 6mm
Heigth : 20.5mm max

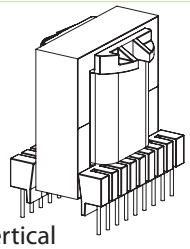


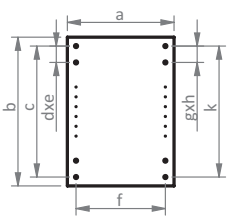


ETD Horizontal
reinforced insulation
creepage distances: 6mm

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

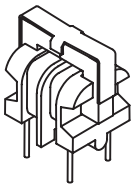
Size	Pin Qty.	a (max)	b (max)	c	dxe	f	gxh	k	height (max)
ETD29	7+7	25.0	35.5	30.48	6x5.08	20.32	6x5.08	30.48	41.5
ETD34	7+7	28.0	35.5	30.48	6x5.08	22.85	6x5.08	30.48	35.5
ETD39	8+8	31.5	41.0	35.0	7x5.0	25.4	7x5.0	35.0	47.0
ETD44	9+9	33.5	46.0	40.0	8x5.0	27.5	8x5.0	40.0	51.0
ETD49	11+11	50.0	68.2	50.8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

*non-exhaustive list

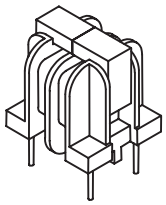
50W 100W 200W

HIGH FREQUENCY FERRITE
POWER FERRITE TRANSFORMERS

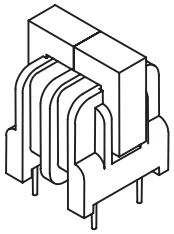
myrra
an acal group company



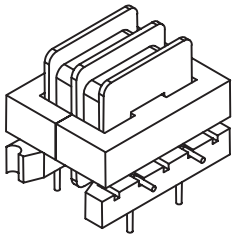
U9.8



U10.5



U16

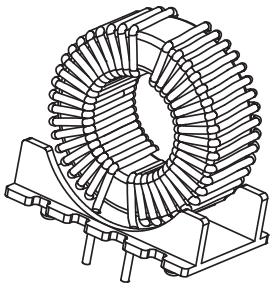


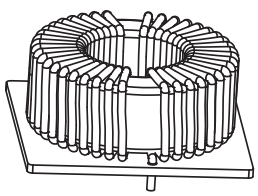
E25

- 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

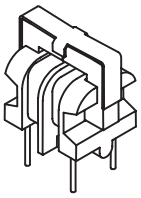


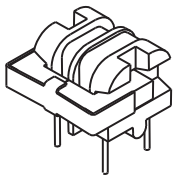


- Ambient Temperature ≤ 50°C
- Dielectric Strength ≥ 1.5 kV between windings
- Electrical characteristics at 25 °C

SIZE : U9.8

Vertical Type



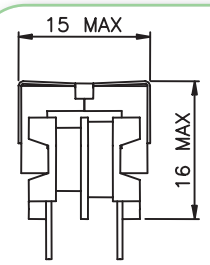


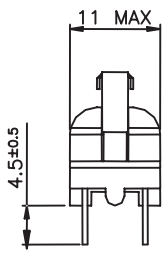
Horizontal Type

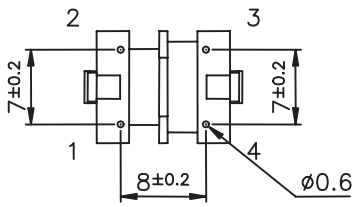
ELECTRICAL CHARACTERISTICS :

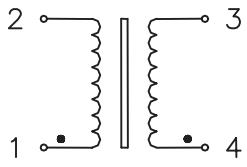
MYRRA Part N°		Inductance Common Mode min - max (mH)	Rated Current Arms	Resistance per winding ohm max	Inductance Differential Mode µH min	Resonant Frequency kHz min
Vertical Type	**Horizontal Type**					
74330	**74335**	33 - 56	0.18	7	710	210
74331	**74336**	18 - 31	0.26	3.5	360	280
74332	**74337**	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

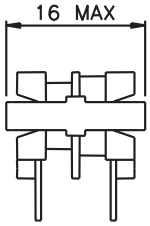
MECHANICAL CHARACTERISTICS / PINOUT :

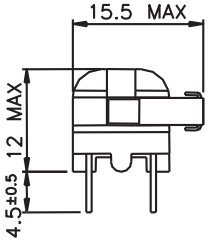


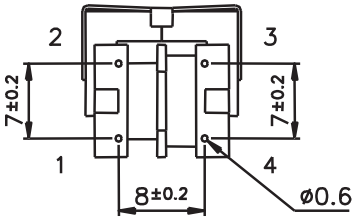










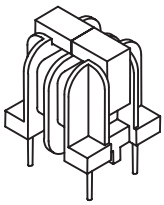


View from pin side
PCB Drilling diameter 1.0 mm

myrra an acal group company

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

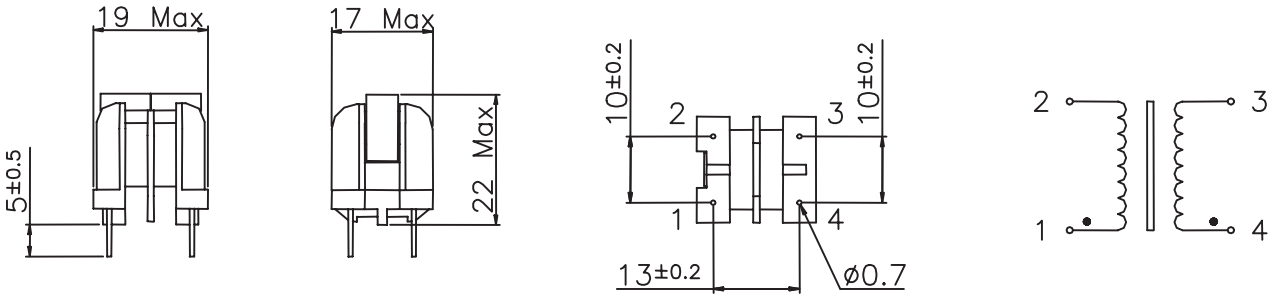
SIZE : U10.5



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

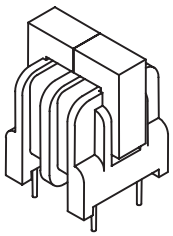
MECHANICAL CHARACTERISTICS / PINOUT :



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

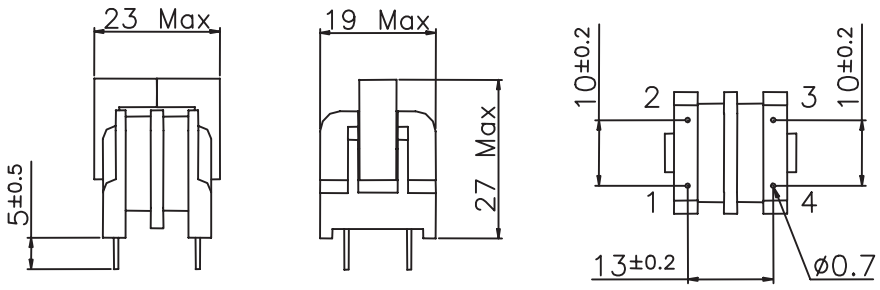
SIZE : U16



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 :

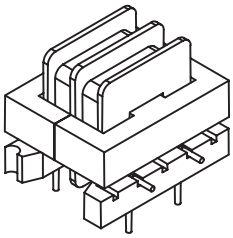


View from pin side
PCB Drilling diameter 1.1 mm

myrra
an acal group company

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

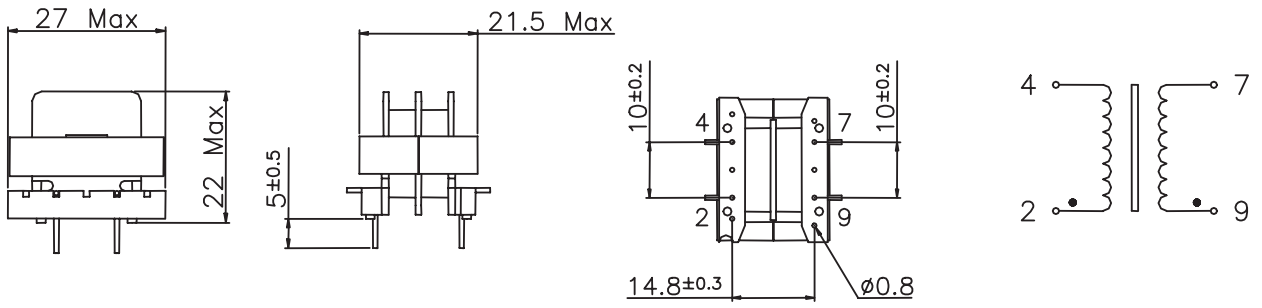
SIZE : E25



ELECTRICAL CHARACTERISTICS :

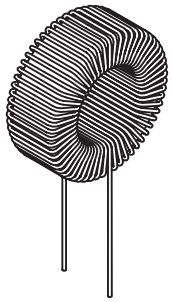
MYRRA Part N°	Inductance Common Mode min - max (mH)	Rated Current Arms	Resistance per winding ohm max	Inductance Differential Mode µH min	Resonant Frequency kHz min
74320	22 – 37	0,9	0,54	130	170
74321	15 – 25	1,1	0,35	90	210
74322	10 - 17	1,3	0,22	50	270
74323	4.7 - 8	1,8	0,105	25	400
74324	2.2 - 3.7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

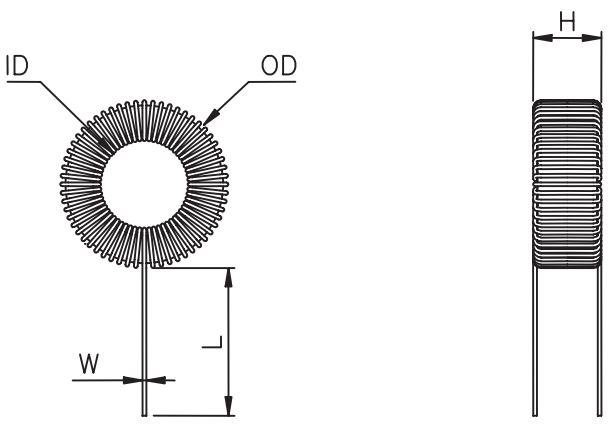
- For noise suppression in light dimmers
- Saturable chokes : provides a high impedance for Triac switching interferences, and a low impedance for 50Hz component.
- Electrical characteristics at 25 °



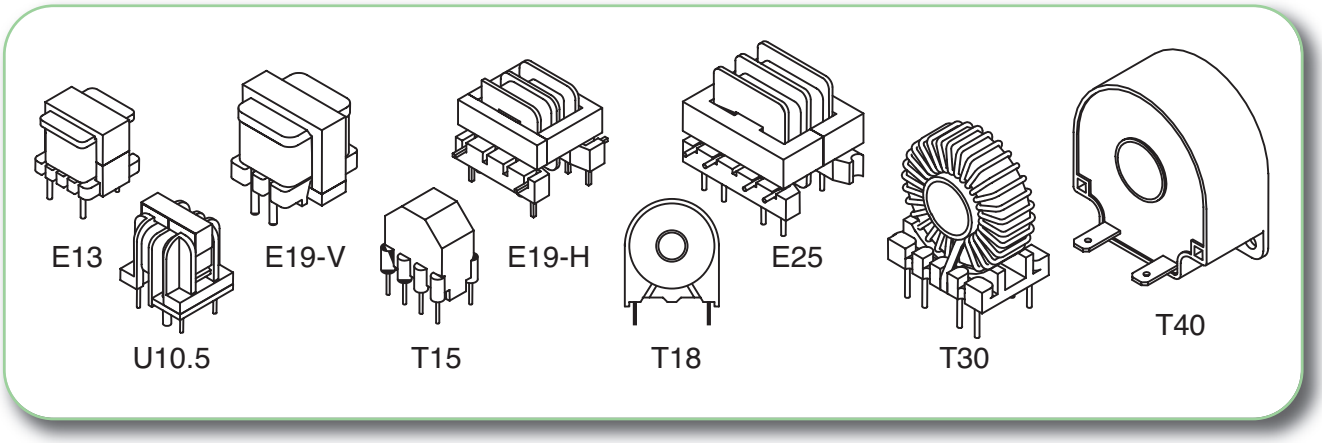
ELECTRICAL CHARACTERISTICS :

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

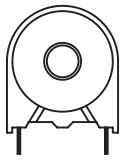


• FOR MAINS AC CURRENT MEASUREMENT - 50 to 400 Hz

MYRRA Part 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

• FOR SWITCH MODE POWER SUPPLIES - 20 to 150kHz

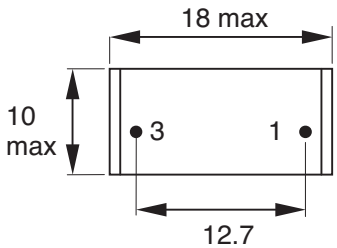
MYRRA Part N°	SIZE	Ratio	Current range
PIN PRIMARY - up to 25A			
74520	Size E19-H	Ratio 1 / 1 / 100	Current 10 A/ 20 A
74530	Size E25	Ratio 1 / 1 / 100	Current 12.5 A/ 25 A
74550	Size E13	Ratio 1 / 100	Current 10 A
74560	Size U10.5	Ratio 1 / 100	Current 10 A
74562	Size U10.5	Ratio 1 / 100	Current 10 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

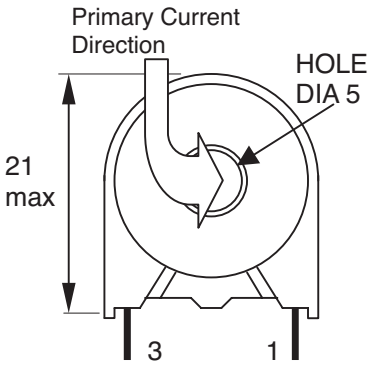


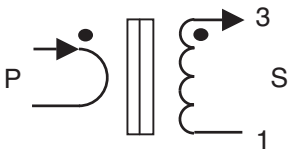
MYRRA Part N°	Sec. Turns	Max Pri. Current A rms	Rsec. Ω max	Lsec. mH min	Pulse Vsec x t max @ Frequency	Sine Vsec max @ Frequency	Typical Load/ Accuracy/ Current
74500	50	15 A	0.6 Ω	5	175 V.µS 20 – 200 kHz	15 V 20 – 200 kHz	50 Ω / 1% / 15 A
74501	100	25 A	1.5 Ω	20	350 V.µS 20 – 100 kHz	25 V 20 – 100 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

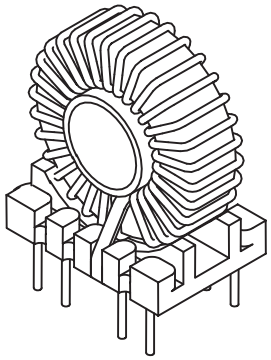
Data applies for one primary turn (single passage of primary wire through toroid hole).
Sensitivity can be increased for lower currents by winding more than one turn.

74500 / 74501 / 74502
74503 / 74504





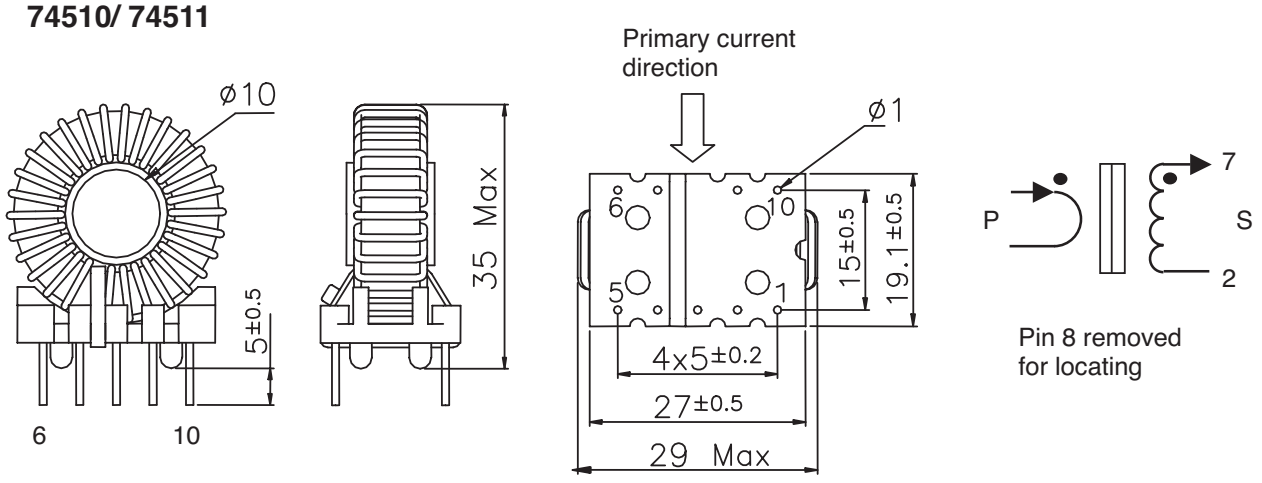


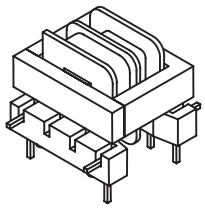


MYRRA Part N°	Sec. Turns	Max Pri. Current A rms	Rsec. Ω max	Lsec. mH min	Pulse Vsec x t max @ Frequency	Sine Vsec max @ Frequency	Typical Load/ Accuracy/ Current
74510	100	150 A	0.25Ω	40	1 V.ms/ 20 kHz 700 V µs/ 100 kHz	50 V/ 20 kHz 80 V/ 100 kHz	1 - 20 Ω / 1%
74511	1000	60 A	32 Ω	4000	10 V.ms/ 50 Hz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





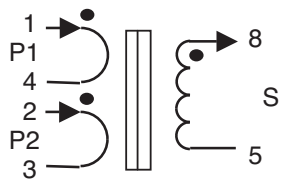
FOR SWITCH MODE POWER SUPPLIES - 20 to 150 kHz								
MYRRA Part N°	Ratio	Max Pri. Current A rms	Rsec. Ω max	Lsec. mH min	Pulse Vsec x t max	Sine Vsec rms max	Typical Load/ Accuracy/ Current	Insulation Voltage P/ S
74520	1/1/100	20 A parallel 10 A serie	1.5	8	400 V.µs	50 Vrms	10 – 100 Ω / 1% / 10 A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

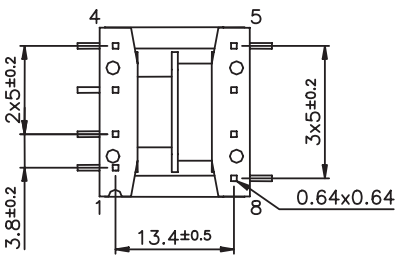
FOR MAINS AC CURRENT MEASUREMENT - 50 to 400 Hz								
MYRRA Part N°	Ratio	Max Pri. Current A rms	Rsec. Ω max	Lsec. mH min	Pulse Vsec x t max	Sine Vsec rms max	Typical Load/ Accuracy/ Current	Insulation Voltage P/ S
74521	1/1/750	20 A parallel 10 A serie	57	300	15 V.ms	3 Vrms	≤ 75 Ω / 4% / 20 A	2500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

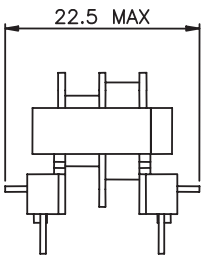
SAFETY :

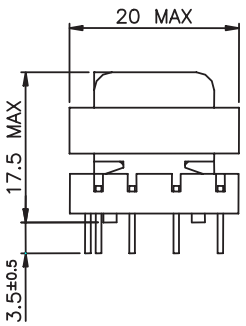
These products are only composed of UL approved materials.
These products have a construction conform to CEI950, CEI335, CEI61558 for Basic insulation (3 mm creepage distance)

74520/ 74521



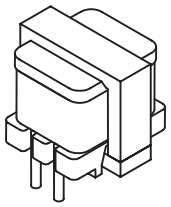






Pins 6 & 7 removed for locating
PCB drill @ Ø 1.3 mm

myrra an acal group company

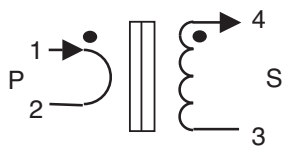


FOR MAINS AC CURRENT MEASUREMENT - 50 to 400 Hz								
MYRRA Part N°	Ratio	Max Pri. Current A rms	Rsec. Ω max	Lsec. mH min	Pulse Vsec x t max	Sine Vsec rms max	Typical Load/ Accuracy/ Current	Insulation Voltage P/ S
74523	1/ 500	15 A	155	670	30 V.ms	6 Vrms	≤ 50 Ω / 2% / 15 A ≤ 200 Ω / 5% / 10 A	1500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

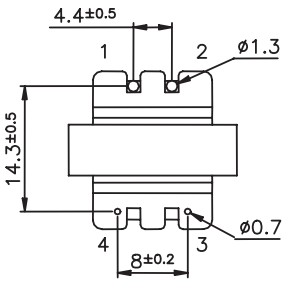
SAFETY :

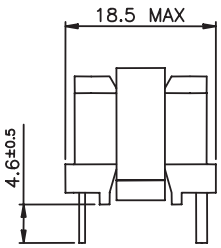
This product is only composed of UL approved materials.
This product has a construction conform to CEI950, CEI335, CEI61558 for Functional insulation

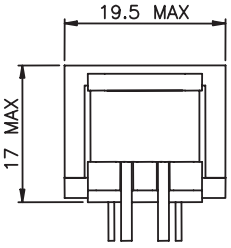
74523

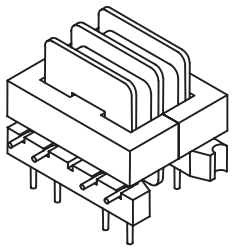


Pins 6 & 7 removed for locating
PCB drill @ Ø 1.2 & 1.8 mm









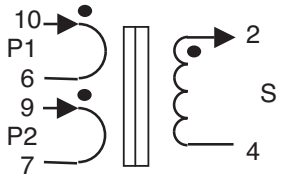
FOR SWITCH MODE POWER SUPPLIES - 20 to 150 kHz								
MYRRA Part N°	Ratio	Max Pri. Current A rms	Rsec. Ω max	Lsec. mH min	Pulse Vsec x t max	Sine Vsec rms max	Typical Load/ Accuracy/ Current	Insulation Voltage P/ S
74530	1/1/100	25 A parallel 12.5 A serie	1	10	600 V.µs	80 Vrms	10 - 100 Ω/ 1%/ 25 A	2500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

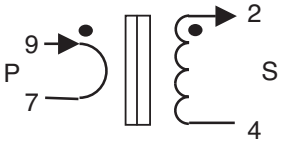
SAFETY :

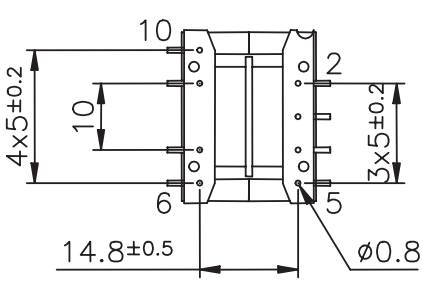
These products are only composed of UL approved materials.
These products have a construction conform to CEI950, CEI335, CEI61558 for Basic insulation (3 mm creepage distance)

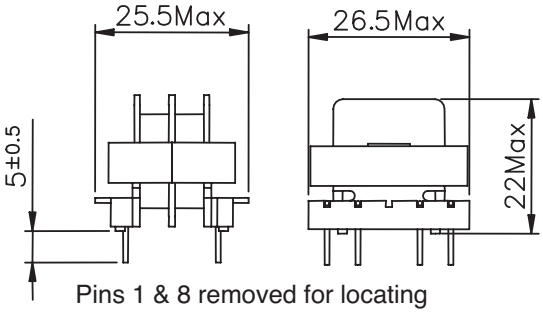
74530/ 74531



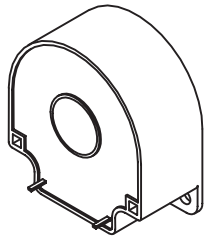
74533/ 74534







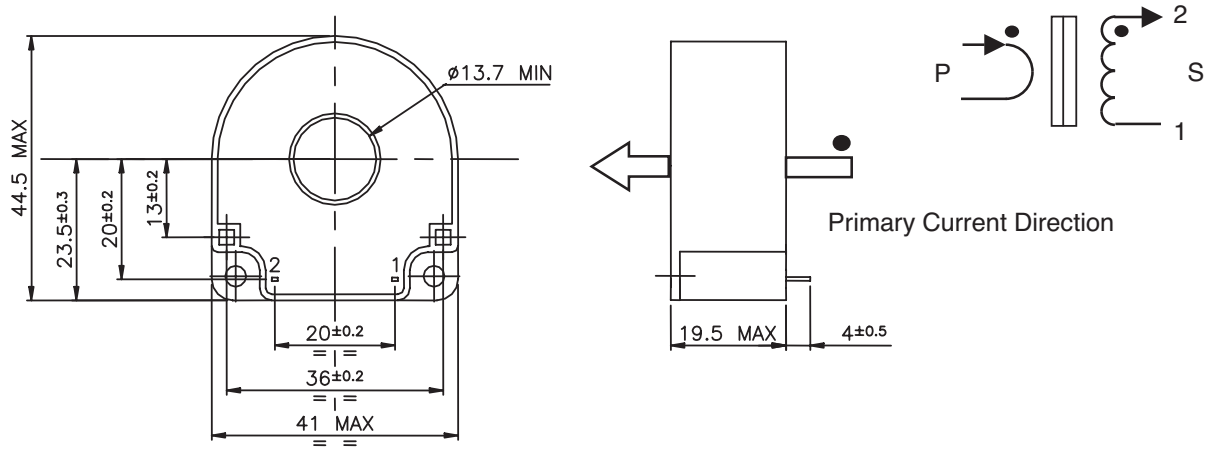
Pins 1 & 8 removed for locating PCB drill @ Ø 1.3mm

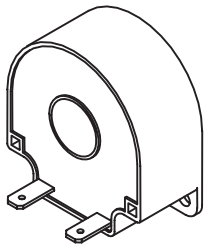


MYRRA Part N°	Sec. Turns	Max Pri. Current A rms	Rsec. Ω max	Lsec. mH min	Pulse Vsec x t max @ Frequency	Sine Vsec max @ Frequency	Typical Load/ Accuracy/ Current
74540	100	200 A	0.35 Ω	50	2 V.ms/ 20 kHz 1 V.ms/ 100 kHz	150 V/ 20 kHz 150 V/ 100 kHz	1..20 Ω / 1%
74543	500	100 A	6.5 Ω	1250	10 V.ms/ 50 Hz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

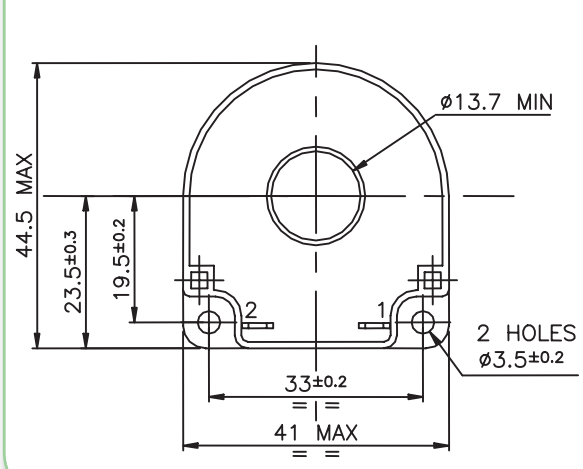


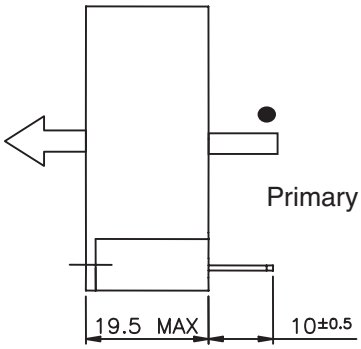


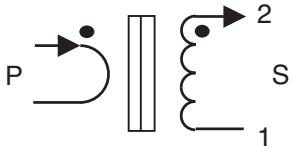
MYRRA Part N°	Sec. Turns	Max Pri. Current A rms	Rsec. Ω max	Lsec. mH min	Pulse Vsec x t max @ Frequency	Sine Vsec max @ Frequency	Typical Load/ Accuracy/ Current
74541	100	200 A	0.35 Ω	50	2 V.ms/ 20 kHz 1 V.ms/ 100 kHz	150 V/ 20 kHz 150 V/ 100 kHz	1..20 Ω / 1%
74544	500	100 A	6.5 Ω	1250	10 V.ms/ 50 Hz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

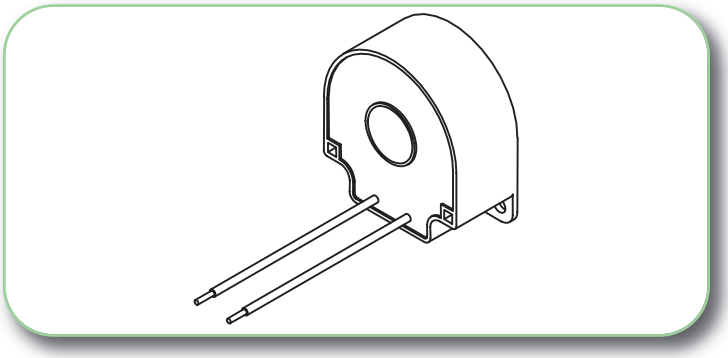
74541/ 74544/ 74547 FASTON Connectors (4.8 x 0.8)







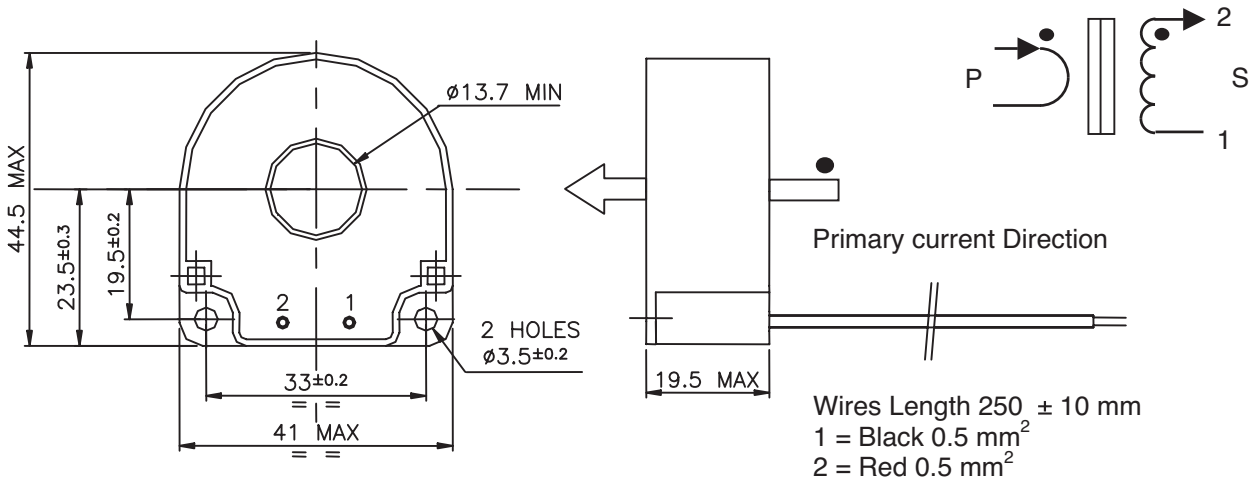
Primary Current Direction

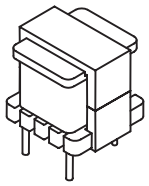


MYRRA Part N°	Sec. Turns	Max Pri. Current A rms	Rsec. Ω max	Lsec. mH min	Pulse Vsec x t max @ Frequency	Sine Vsec max @ Frequency	Typical Load/ Accuracy/ Current
74542	100	200 A	0.35 Ω	50	2 V.ms/ 20 kHz 1 V.ms/ 100 kHz	150 V/ 20 kHz 150 V/ 100 kHz	1..20 Ω / 1%
74545	500	100 A	6.5 Ω	1250	10 V.ms/ 50 Hz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



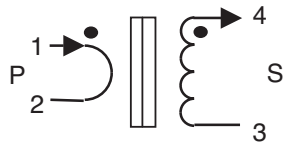


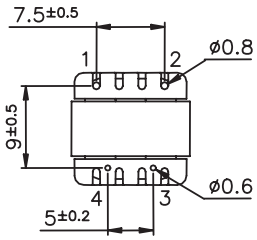
FOR SWITCH MODE POWER SUPPLIES - 20 to 150 kHz								
MYRRA Part N°	Ratio	Max Pri. Current A rms	Rsec. Ω max	Lsec. mH min	Pulse Vsec x t max	Sine Vsec rms max	Typical Load/ Accuracy/ Current	Insulation Voltage P/ S
74550	1/ 100	10	2.3	6	250 V.µs	40 Vrms	10 – 100 Ω / 1% / 10 A	1500 V

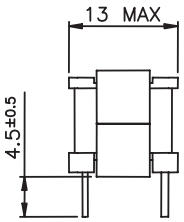
SAFETY :

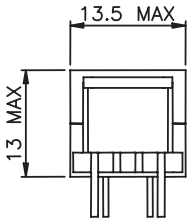
This product is only composed of UL approved materials.
This product has a construction conform to CEI950, CEI335, CEI61558 for functional insulation

74550

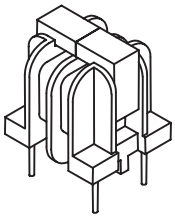


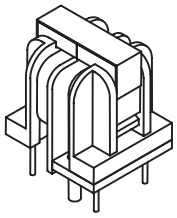






PCB drill @ Ø 1 & 1.3 mm





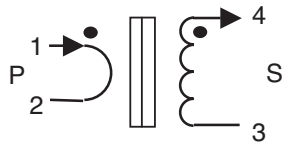
FOR SWITCH MODE POWER SUPPLIES - 20 to 150 kHz								
MYRRA Part N°	Ratio	Max Pri. Current A rms	Rsec. Ω max	Lsec. mH min	Pulse Vsec x t max	Sine Vsec rms max	Typical Load/ Accuracy/ Current	Insulation Voltage P/ S
74560	1/ 100	10	1.1	12	300 V.µs	25 Vrms	5 – 50 Ω / 1% / 10 A	4000 V
74562	1/ 100	25	1.1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

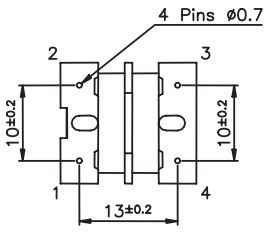
SAFETY :

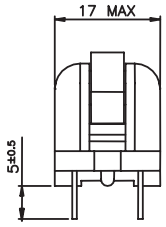
These products are only composed of UL approved materials.
These products have a construction conform to CEI950, CEI335, CEI61558 for Reinforced insulation
74560, 74561 : 8 mm creepage distance
74562 : 6 mm creepage distance

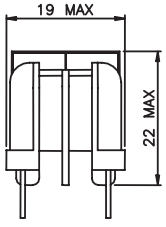
74560/ 74561



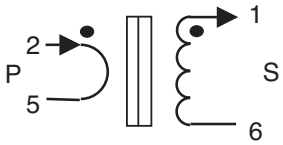
PCB drill @ Ø 1.1 & 2.2 mm



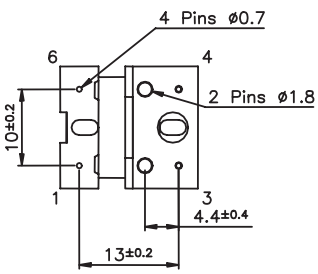


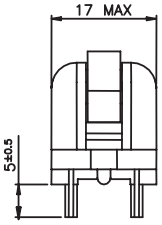


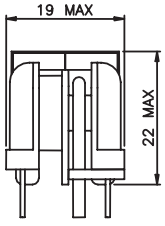
74562

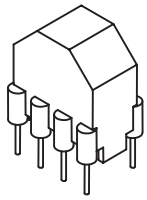


PCB drill @ Ø 1.1 & 2.2 mm







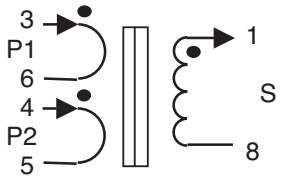


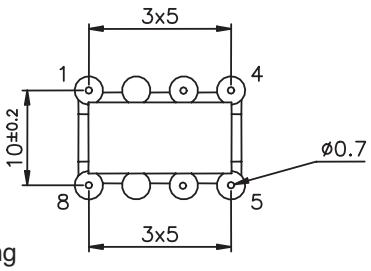
FOR SWITCH MODE POWER SUPPLIES - 20 to 150 kHz								
MYRRA Part N°	Ratio	Max Pri. Current A rms	Rsec. Ω max	Lsec. mH min	Pulse Vsec x t max	Sine Vsec rms max	Typical Load/ Accuracy/ Current	Insulation Voltage P/ S
74570	1/1/50	20 A parallel 10 A serie	0.32	9	150 V.µs	12 Vrms	5 – 25 Ω / 1% / 20 A	4000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

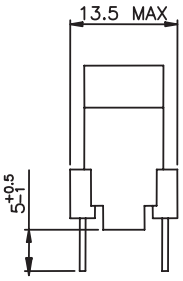
SAFETY :

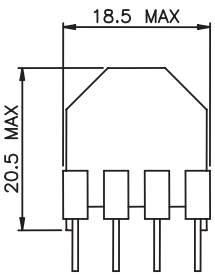
This product is only composed of UL approved materials.
This product has a construction conform to CEI950, CEI335, CEI61558 for Reinforced insulation (8 mm creepage distance)

74570

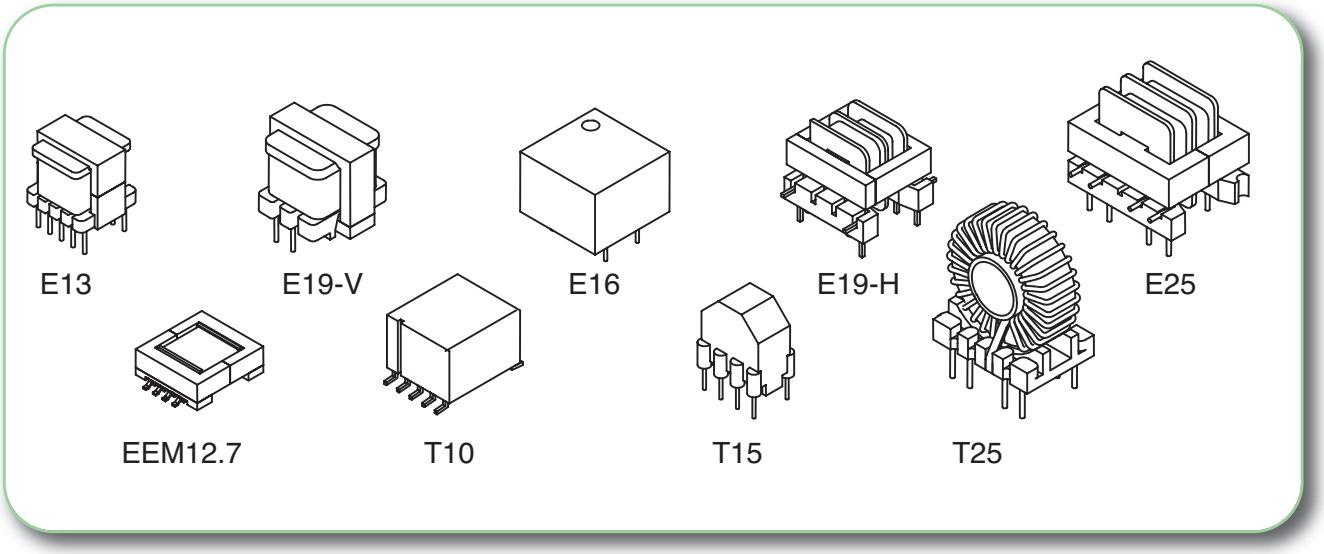






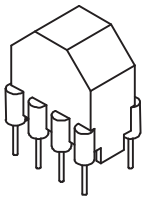


Pins 2 & 7 removed for locating PCB drill @ Ø 1.1mm

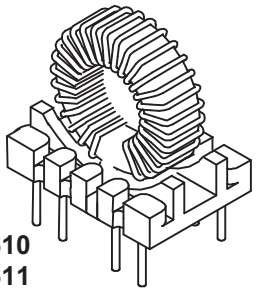


To be used for MOSFET or IGBT Drive, SCR triggering, DC/DC power conversion, Voltage isolation.

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

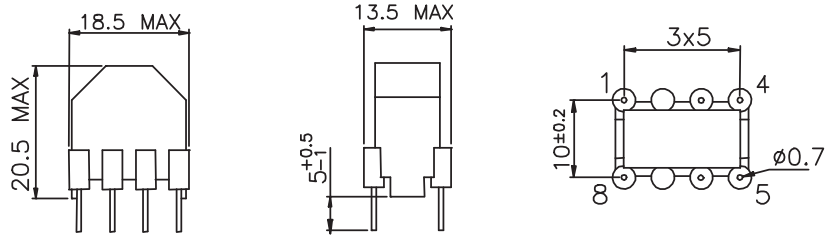
MYRRA Part N°	Ratio P/S1/S2	L pri. +/-30%	Current / winding Arms max	Resistance / winding Ω max	Pulse E x t V.µs max	square V / kHz max	C P/S pF max	Lleak P/S max	Insulation Voltage	
									P/ S	S1/S2
74600	1 / 1 / 1	4 – 8	0.6	0.35	150 V.µs	0.4	120 pF	1.0 µH	4 kV	4 kV
74610	1 / 1 / 1	0.6 – 1.2	1.7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

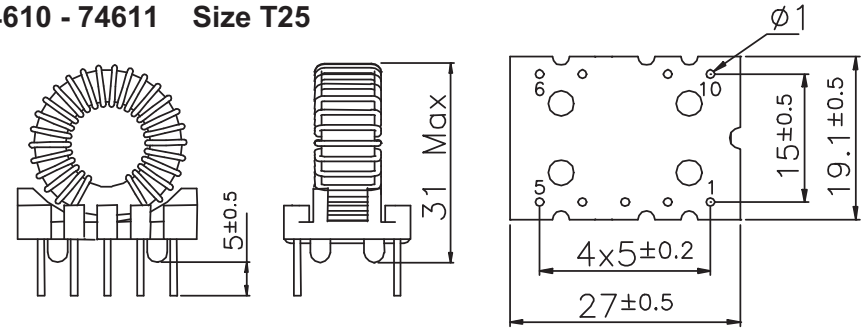
- These products are only composed of UL-V0 approved materials.
- Insulation test voltage : 4000 Vrms
- This product has a construction conform to CEI950, CEI335, CEI61558 for Reinforced insulation (8 mm creepage distance)

74600 Size T15

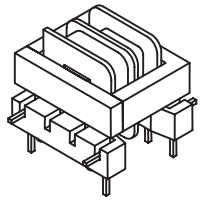


Pins 2 & 7 removed for locating PCB drill @ Ø 1.1mm Weight ≈ 6 g

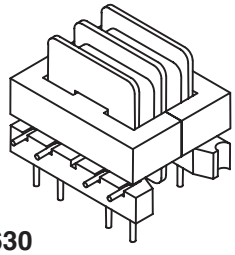
74610 - 74611 Size T25



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



74620
74621



74630
74631

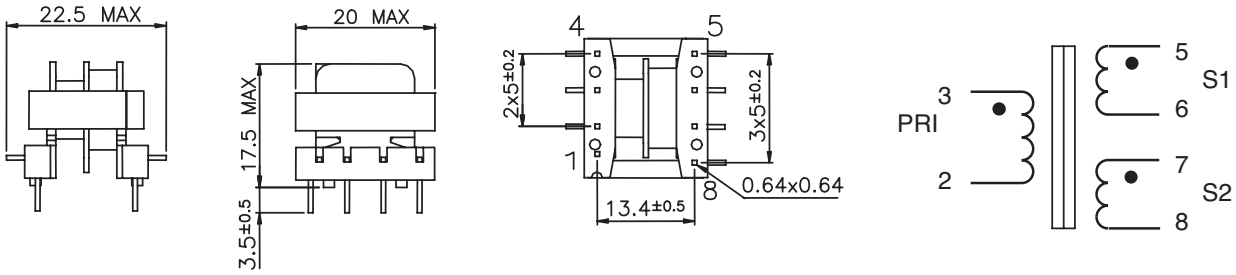
MYRRA Part N°	Ratio P/S1/S2	L pri. +/-30%	Current / winding Arms max	Resistance / winding Ω max	Pulse E x t V.µs max	square V / kHz max	C P/S pF max	Lleak P/S max	Insulation Voltage	
									P/ S	S1/S2
74620	1 / 1 / 1	3.2 mH	0.5	1.0	350 V.µs	0.6	5 pF	70 µH	2.5 kV	1.5 kV
74621	3 / 1 / 1	17 mH	0.3	2.0	800 V.µs	1.5	5 pF	400 µH	2.5 kV	1.5 kV
74630	1 / 1 / 1	2 mH	1	0.4	500 V.µs	0.8	7 pF	60 µH	2.5 kV	1.5 kV
74631	3 / 1 / 1	10 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 :

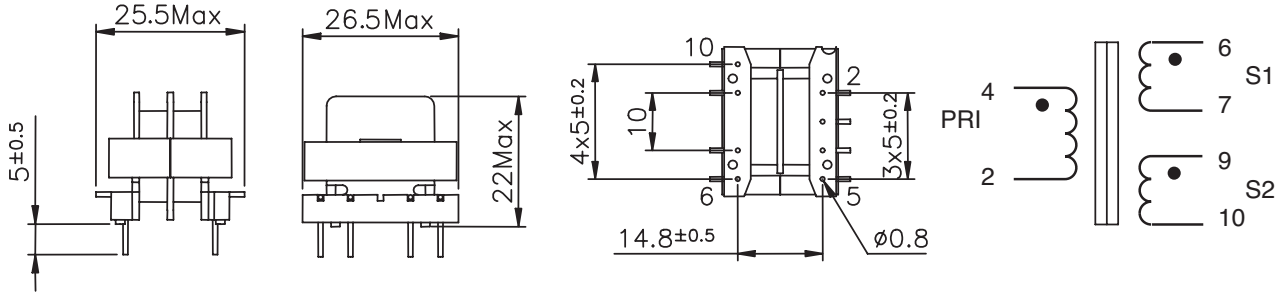
These products are only composed of UL-V0 approved materials.

74620 - 74621 Size E19-H

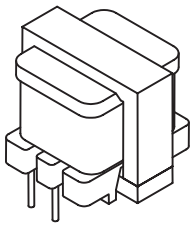


Pin 1 removed for locating PCB drill @ Ø 1.3mm Weight ≈ 12 g

74630 – 74631 Size E25



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

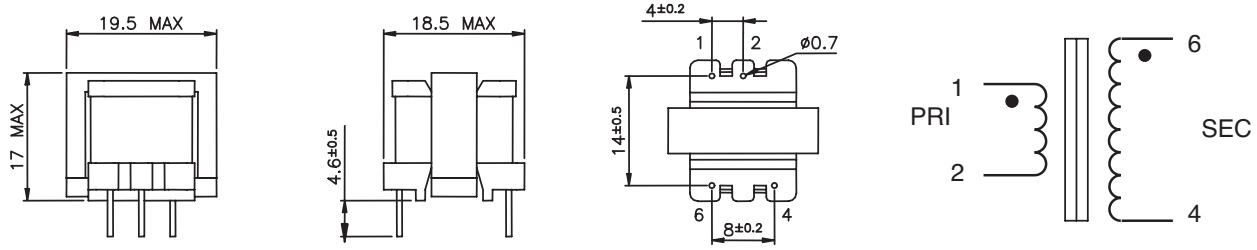


MYRRA Part N°	Ratio P/S	L pri. +/-30%	Current Arms max	Resistance Ω max	Pulse Vsec . t max	Sine Vsec. max	Insulation Voltage P/ S
74640	1 / 5	11 mH	Pri : 0.5 Sec : 0.1	Pri : 1.0 Sec : 31	16 V.ms	4 Vrms / 50 Hz 50 Vrms / 5 kHz	1500
74641	1 / 10	11 mH	Pri : 0.4 Sec : 0.04	Pri : 1.8 Sec : 80 Ω	33 V.ms	8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

SAFETY :

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

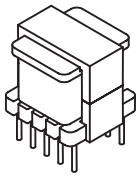
74640-74641 Size E19-V



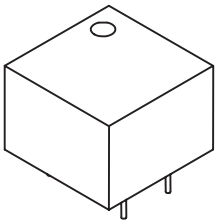
Pins 3 & 5 removed for locating

PCB drill @ Ø 1.1mm

Weight ≈ 14 g



74650



74710

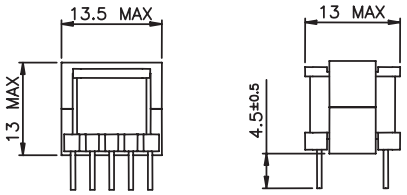
MYRRA Part N°	Ratio P/S1/S2	L pri.	Current / winding Arms max	Resistance / winding Ω max	Pulse E x t V.µs max	square V / kHz max	C P/S pF max	Lleak P/S max	Insulation Voltage	
									P/ S	S1/S2
74650	1 / 1 / 1	500 µH +/-30%	0.6	0.28	120 V.µs	20V/ 100kHz	12 pF	2 µH	1.5 kV	1.5 kV
74710	1 / 1	2 mH +/-40%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

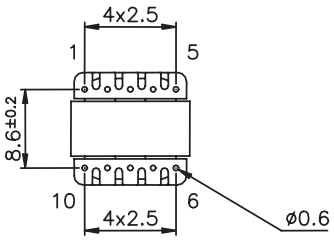
SAFETY :

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)

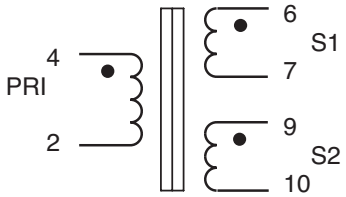
74650 Size E13



Pin 8 removed for locating

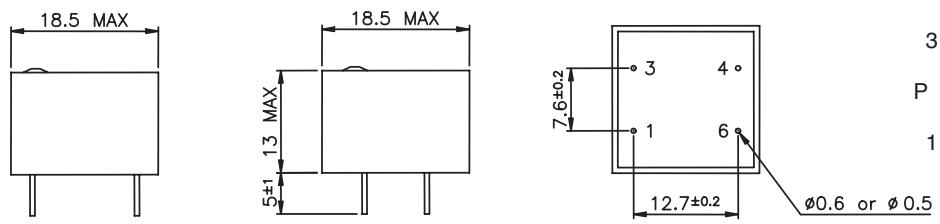


PCB drill @ Ø 1.1mm



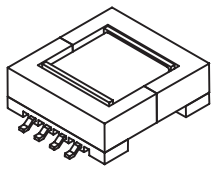
Weight ≈ 4 g

74710 Size E16

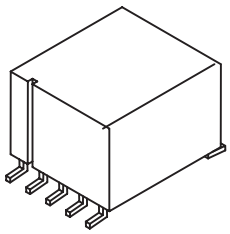


PCB drill @ Ø 1.1mm

Weight ≈ 8 g



74660 - 74661



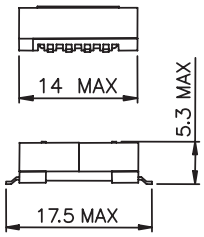
74670

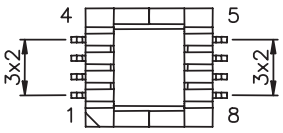
MYRRA Part N°	Ratio P/S	L pri.	Current / winding max	Resistance / winding Ω max	Pulse E x t max P1 or P2	square V / kHz max P1 or P2	C P/S pF max	Lleak P/S max	Insulation Voltage P/ S
74660	1+1 / 1.3+1.3	240 µH +/-30%	0.2 Arms	0.9	50 V.µs	15V 100 – 500kHz	20 pF	0.35 µH	0.5 kV
74661	1+1 / 1+1	10 µH +/-10%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

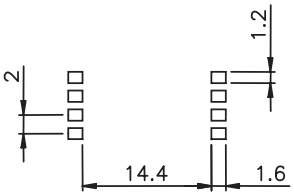
- 74660 can be used in association with MAXIM MAX250 or MAX253
- 74661 can be used in association with LINEAR TECHNOLOGY LT1424
- 74660 can be used in association with MAXIM MAX845

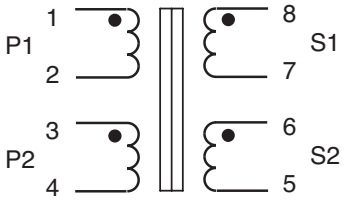
SAFETY :
These products are only composed of UL-V0 approved materials.

74660 – 74661 Size EEM12.7



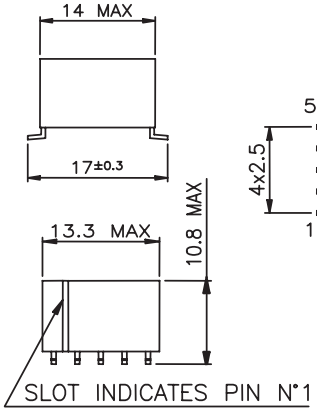


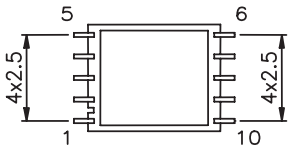


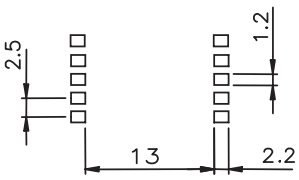


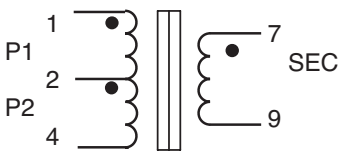
Weight ≈ 3 g

74670 Size T10

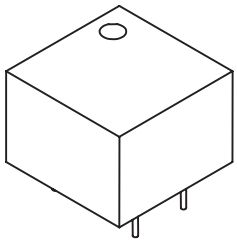




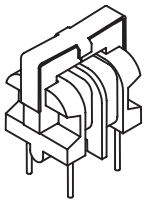




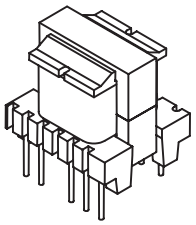
Weight ≈ 4 g



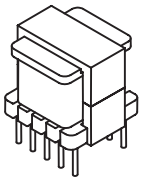
74710 - 74716 - 74717



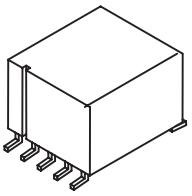
74711



74712



74713



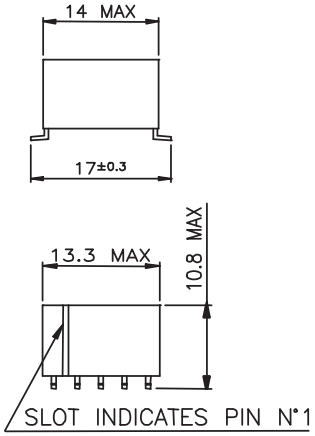
74714 - 74715

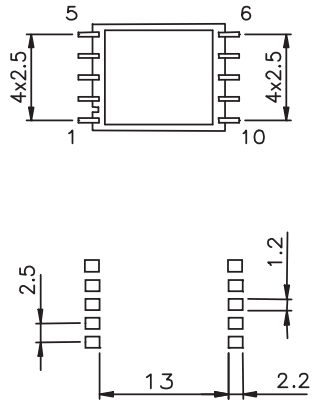
- Designed for coupling signals to power line
- Adapted for use with Modem Circuits : **ST7537**, **ST7538**, **TDA5051** or **IC/SS**

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	4	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

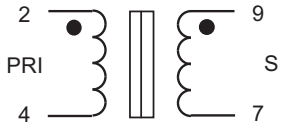
74714 - 74715

Reinforced insulation, creepage distance > 8 mm

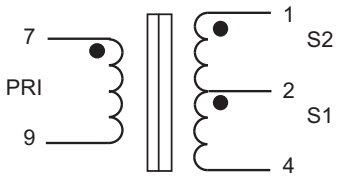




74714



74715

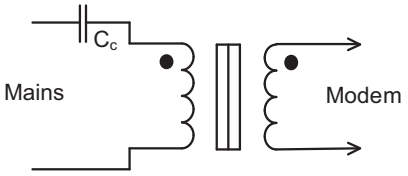


MYRRA Part N°	Inductance (µH)	Leakage Inductance (µH)	Resistance per winding P / S (max)	Frequency range	Turns ratio P / S	Max Sec. current (mA rms) (50 - 60 Hz)	Insulation (Vrms)	Size
74710	2000 +/-40 % (1 – 3)	44 +/-7%	0.6 Ω / 0.6 Ω	10 – 450kHz	1 / 1	10	4000	EF16-H-4P
74711	2900 +/-40% (1 – 2)	44 +/-7%	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**

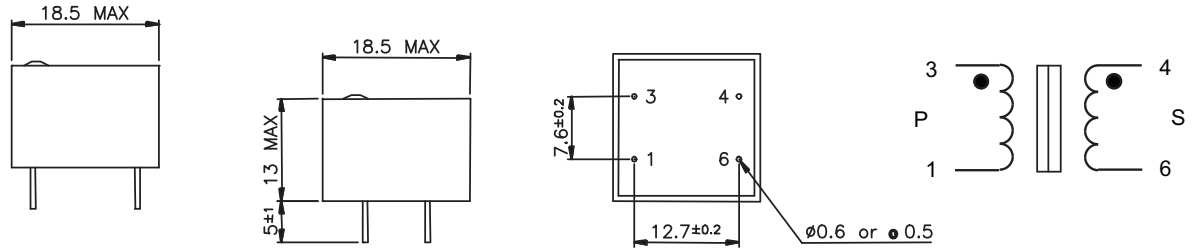
Typical application :

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

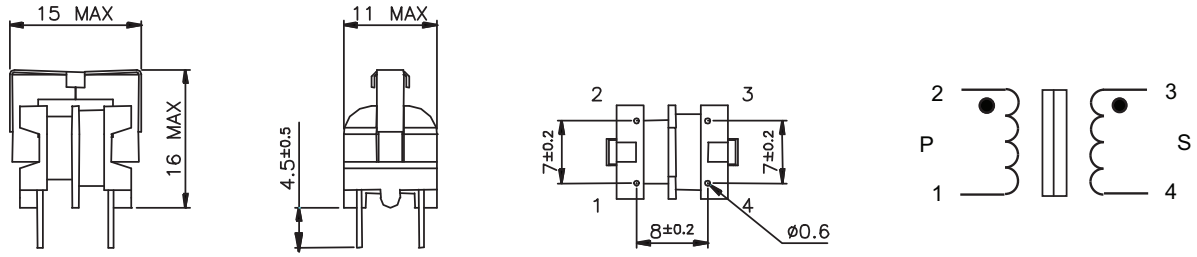


MYRRA Part N°	Series Resonance Frequency (kHz)	Mains Coupling capacitance (nF)
74710	132.5	33
74711	132.5	33
74716	50	6.8
74717	40 - 90	470

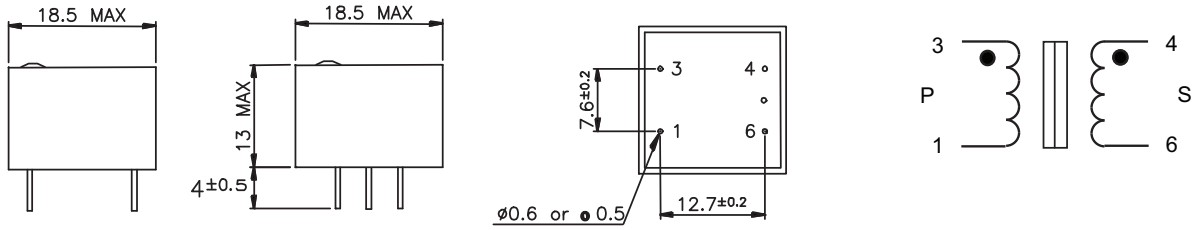
74710 Reinforced insulation, creepage distance > 8 mm



74711 Functional insulation



74716 - 74717 Reinforced insulation, creepage distance > 8 mm

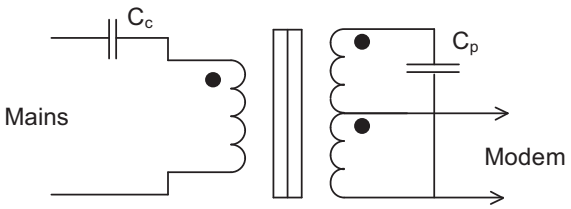


MYRRA Part N°	Inductance (µH)	Leakage Inductance (µH)	Resistance per winding P / S (max)	Frequency range	Turns ratio P / S	Max Sec. current (mA rms) (50 - 60 Hz)	Insulation (Vrms)	Size
74712	212 +/-10 % (2 – 5)	< 5 (2 – 5)	0.8 Ω / 0.04 Ω	10kHz – 1MHz	5+1 / 1	500	4000	E16-V-10P
74713	144 +/-10 % (2 –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

- **74712 - 74713**

Typical application :

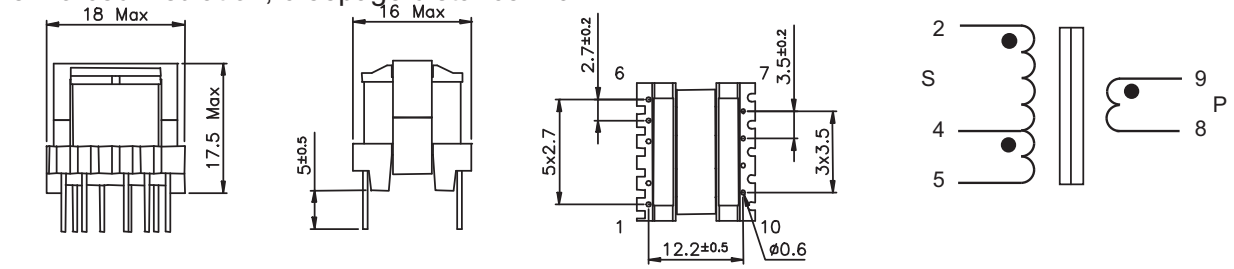
Designed for resonance of parallel capacitor with the primary magnetizing inductance.



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

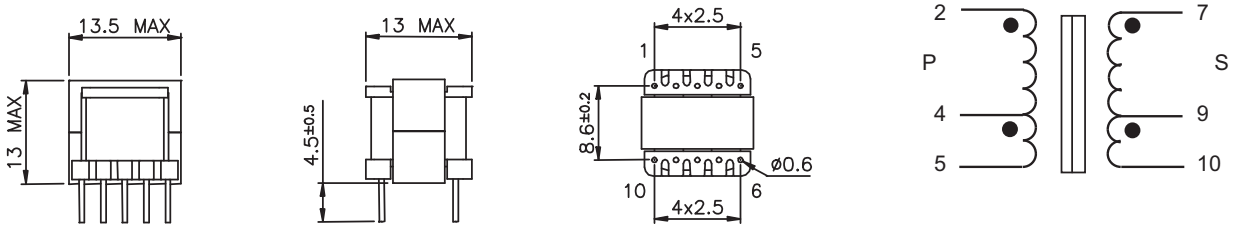
74712

Reinforced insulation, creepage distance > 6 mm

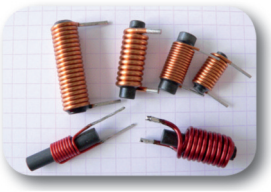
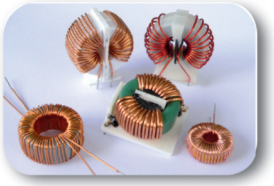


74713

Functional insulation



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

MYRRA encapsulated electronic transformers are Switched Mode Power Supplies based on Flyback topology.

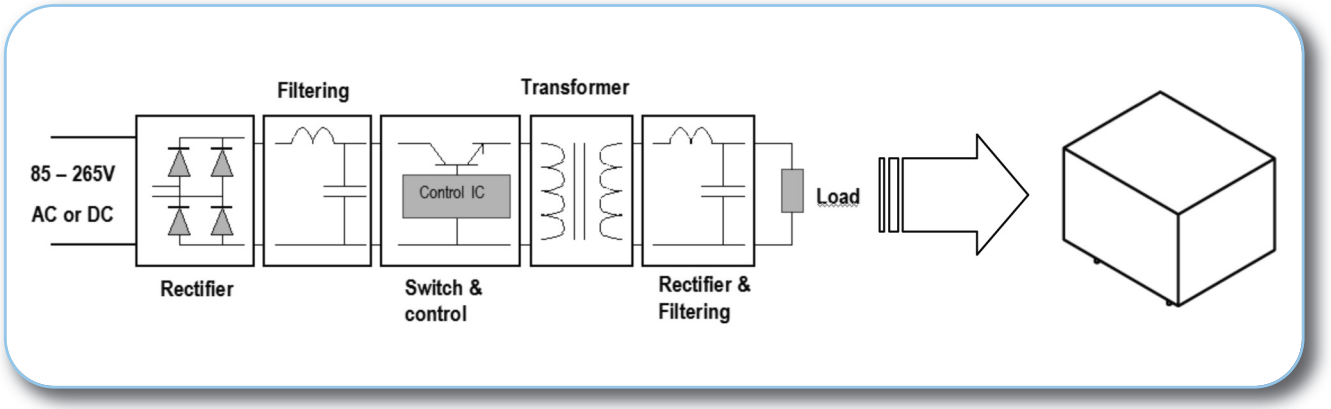
They constitute an interesting alternative to the traditional supply in the most common applications of power from 5W to 10W

ENERGY SAVING due to high efficiency and low standby power

MAIN FEATURES

- **Wide input voltage range**
- **Increased power. 3 x compared to standard EI30, EI38 and EI48 transformer**
- **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 EI30, EI38 and EI48 transformer : Upgrade your application without redesign of PCB**

Power from 2.5W to 10W



The applications for the Electronic serie are :

- Alternative to the linear transformers in all AC/DC applications of power up to 10W
- 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 a EI30, EI38 and EI48 transformer, they will replace:

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

Regulated types will also replace linear regulator and heatsink

SAFETY STANDARDS
APPROVALS:

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

EMC STANDARDS
Conducted and radiated emissions conform to

- EN 55014-1
- EN 55022 class B

Immunity conform to

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

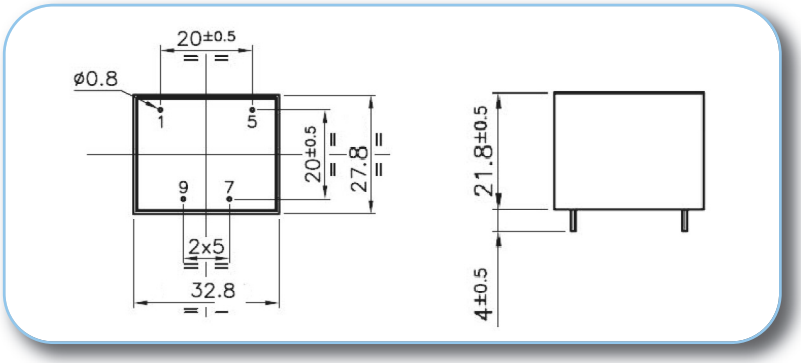
MAIN FEATURES :

- 2.5 To 5W Small Compact Size - PCB Mount
- Single Output - Regulated
- Output Range : 3.3VDC - 24VDC
- Input Range : 85VAC - 265VAC/47 - 63Hz Or 120VDC - 370VDC
- Very Low Standby Power Consumption < 0.2W
- Better Energetic Efficiency : Meet Requirements Of Energy Star And EC Code Of Conduct
- Encapsulated Design And Same Footprint As EI30 Transformer: Upgrade Your Application Without Redesign Of PCB
- Safety : Meets All Requirements of: IEC/EN61558-2-16, IEC/EN60950,IEC/EN60335, UL/CUL60950, CE,VDE,ENEC Mark
- Materials : Uses UL 94-V0 Plastic And Resin
- EMC : Conducted And Radiated Emissions Conform To EN55014 , EN55022, CLASS B
- Immunity Conform To EN61000-3-3,EN61000-4-2, EN61000-4-3,EN61000-4-4,EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11

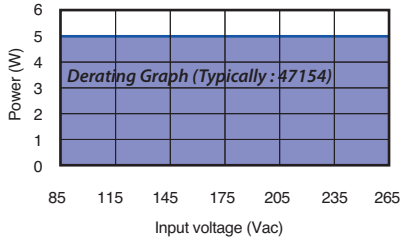
Reference	Output voltage (DC Volts)	Output current (DC mA)	Output Power (W)	Efficiency (%)	Ta (°C)
47121	3.3	750	2.5	65	70
47122	5	550	2.75	68	70
47123	9	270	2.5	72	70
47124	12	210	2.5	74	70
47124 SLI	12	210	2.5	74	70
47125	15	170	2.5	75	70
47126	24	110	2.5	77	70
47151	3.3	1350	4.2	65	50
47157	3.8	1180	4.5	66	50
47152	5	900	4.5	68	50
47153	9	550	5	72	50
47154	12	420	5	75	50
47155	15	320	5	76	50
47156	24	220	5	79	+50

DIMENSIONS and PINOUT

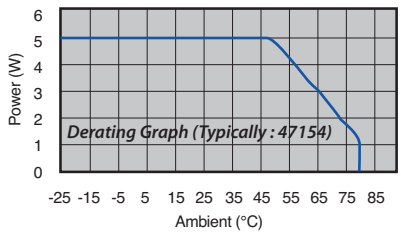
4 PINS
PRI. Pins 1 – 5: AC Or DC Input
SEC. Pin 7 : DC Output +V
Pin 9 : DC Output 0V



Power Derating Curve



Power Derating Curve



Model: 2.5 To 5 Watt		Specification
AC Input Characteristics	Rated AC input Voltage	100~240Vac Or 140VDC-340VDC
	AC Input Voltage Range	85~265Vac Or 120VDC-370VDC
	AC Input Frequency Range	47Hz~63Hz
	Rated AC Input Frequency	50/60Hz
	Input Current	0.2A Max@85Vac~265Vac, at full load
	Standby Power	0.2W Max(Meet Requirements Of Energy Star And EC Code Of Conduct)
DC Output Characteristics	Output Voltage Accuracy	± 2%
	Output Voltage Line Regulation	± 0.5%
	Output Voltage Load Regulation	± 1%
	Ripple & Noise	Max 200mVp-p@ Rated AC input(The measuring will be terminated with a 47uF AL E-Cap and a 0.1uF Cer-Cap. An oscilloscope set at 20MHz bandwidth)
	Efficiency	See Table (Meet Requirements Of Energy Star And EC Code Of Conduct)
Protection Characteristics	Over Current Protection	The power supply shall automatic protection. The power supply shall autorecovery normal operation after the deformation is removed. No excessive heat, odor, or plastic deformation shall occur, no safety hazard
	Output Short Circuit Protection	The power supply shall withstand a continuous output short without damage in 24 hours ; The short may be applied before power on, or after power on ; The power supply shall resume normal operation after the short is removed, no excessive heat, odor, or plastic deformation shall occur, no safety hazard
Environmental	Operation Temperature	The power supply shall shut down when the junction temperature of PWM controller exceeds the thermal shutdown temperature , typically 140°C±10°C.
	Operation Humidity	10~ 90% RH(No Condensing) @ full load
	Storage Temperature	-40°C~ +85°C
	Storage Humidity	5%~95%
Safety & EMC Requirement	Dielectric Strength	Primary to Secondary: 4000Vac 5mA, 3 sec.
	Radiation	Meet EN55022,EN55014 , Class B. under 3dB margin
	Conduction	Meet EN55022,EN55014, Class B. under 3dB margin
	Safety Standards	Meet all requirements of UL/CUL60950 - IEC/EN60950 - IEC/EN60335 - EC/EN61558-2-16 CE,VDE, And ENEC Mark VDE Approval No. 40034334 - UL Approval No.E352488
Reliability Requirement	MTBF	Calculated by MIL-HDBK-217-F2 550K Hours Min. @230VAC input, 25deg.C
	Burn-In Test	The unit shall be burned in for 2~ 5hours under 230Vac input and DC with full load at an ambient temperature of 30~45 degrees C
Net Weight	About 30 grams per product unit	
Guarantee	This product meet to RoHS standard	

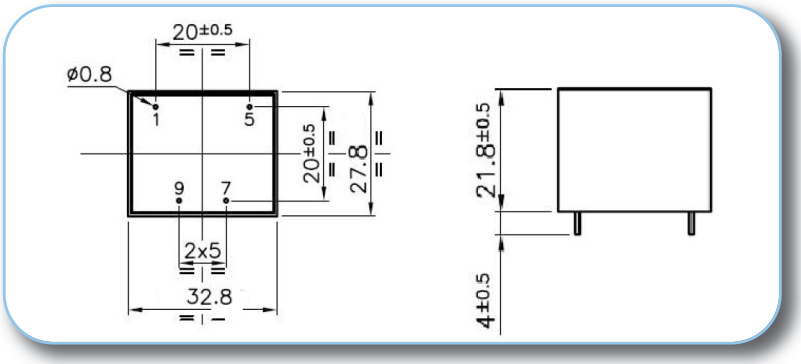
MAIN FEATURES :

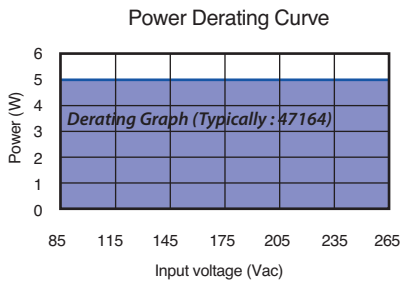
- 2.4 To 5W Small Compact Size - PCB Mount
- Single Output –Non Regulated
- Output Range : 5.0VDC - 24VDC
- Input Range : 85VAC - 265VAC/47 - 63Hz Or 120VDC - 370VDC
- Very Low Standby Power Consumption < 0.3W
- Better Energetic Efficiency : Meet Requirements Of Energy Star and EC Code Of Conduct
- Encapsulated Design And Same Footprint As EI30 Transformer: Upgrade Your Application Without Redesign Of PCB
- Safety : Meets All Requirements of: IEC/EN61558-2-16, IEC/EN60950, IEC/EN60335, UL/CUL60950, CE,VDE,ENEC Mark
- Materials : Uses UL 94-V0 Plastic And Resin
- EMC : Conducted And Radiated Emissions Conform To EN55014 , EN55022, CLASS B
- Immunity Conform To EN61000-3-3,EN61000-4-2, EN61000-4-3,EN61000-4-4,EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11

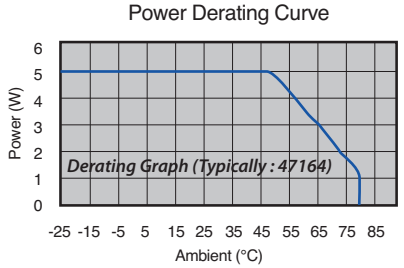
Reference	Output voltage (DC Volts)	Output current (DC mA)	Output Power (W)	Efficiency (%)	Ta (°C)
47114	12	200	2.4	74	+70
47132	5	500	2.5	68	+70
47133	9	360	3.2	73	+70
47134	12	270	3.2	75	+70
47135	18	180	3.2	78	+70
47136	24	130	3.2	80	+70
47162	5	900	5	68	+50
47163	9	560	5	73	+50
47164	12	420	5	75	+50
47165	18	280	5	78	+50
47166	24	210	5	80	+50

DIMENSIONS and PINOUT

4 PINS
PRI. Pins 1 – 5: AC Or DC Input
SEC. Pin 7 : DC Output +V
Pin 9 : DC Output 0V







myrra
an acal group company

Model: 2.4 To 5 Watt		Specification
AC Input Characteristics	Rated AC input Voltage	100~240Vac Or 140VDC-340VDC
	AC Input Voltage Range	85~265Vac Or 120VDC-370VDC
	AC Input Frequency Range	47Hz~63Hz
	Rated AC Input Frequency	50/60Hz
	Input Current	0.2A Max@85Vac~265Vac, at full load
	Standby Power	0.3W Max(Meet Requirements Of Energy Star And EC Code Of Conduct)
DC Output Characteristics	Output Voltage Accuracy	± 5%
	Output Voltage Line Regulation	± 3%
	Output Voltage Load Regulation	± 5%
	Ripple & Noise	Max 200mVp-p@ Rated AC input(The measuring will be terminated with a 47uF AL E-Cap and a 0.1uF Cer-Cap. An oscilloscope set at 20MHz bandwidth)
	Efficiency	See Table(Meet Requirements Of Energy Star And EC Code Of Conduct)
Protection Characteristics	Over Current Protection	The power supply shall automatic protection. The power supply shall autorecovery normal operation after the deformation is removed. No excessive heat, odor, or plastic deformation shall occur, no safety hazard
	Output Short Circuit Protection	The power supply shall withstand a continuous output short without damage in 24 hours; The short may be applied before power on, or after power on ; The power supply shall resume normal operation after the short is removed, no excessive heat, odor, or plastic deformation shall occur, no safety hazard
Environmental	Operation Temperature	-25°C ~ +Ta (see table)
	Operation Humidity	10~ 90% RH(No Condensing) @ full load
	Storage Temperature	-40°C~ +85°C
	Storage Humidity	5%~95%
Safety & EMC Requirement	Dielectric Strength	Primary to Secondary: 4000Vac 5mA, 3 sec.
	Radiation	Meet EN55022,EN55014 , Class B. under 3dB margin
	Conduction	Meet EN55022,EN55014, Class B. under 3dB margin
	Safety Standards	Meet all requirements of UL/CUL60950 - IEC/EN60950 - IEC/EN60335 - IEC/EN61558-2-16 CE,VDE,And ENEC Mark VDE Approval No. 40034334 - UL Approval No.E352488
Reliability Requirement	MTBF	Calculated by MIL-HDBK-217-F2 550K Hours Min. @230VAC input, 25deg.C
	Burn-In Test	The unit shall be burned in for 2~ 5hours under 230Vac input and DC with full load at an ambient temperature of 30~45 degrees C
Net Weight	About 30 grams per product unit	
Guarantee	This product meet to RoHS standard	

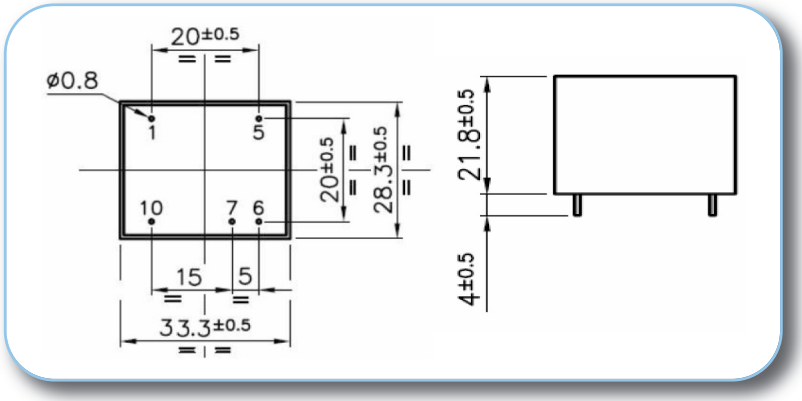
MAIN FEATURES :

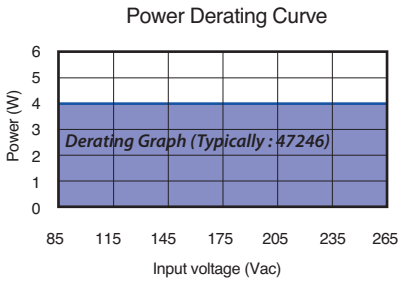
- 3 To 5W Small Compact Size - PCB Mount
- Two Common Outputs - Regulated
- Output Voltage Accuracy : See Table For 15 To 100% Rated Load Of Each Output (includes line and load variations)
- Input Range : 85VAC - 265VAC/47 - 63Hz Or 120VDC - 370VDC
- Very Low Standby Power Consumption < 0.2W
- Better Energetic Efficiency : Meet Requirements Of Energy Star And EC Code Of Conduct
- Encapsulated Design And Same Footprint As EI30 Transformer: Upgrade Your Application Without Redesign Of PCB
- Safety : Meets All Requirements of: IEC/EN61558-2-16, IEC/EN60950,IEC/EN60335,UL/CUL60950, CE,VDE,ENEC Mark
- Materials : Uses UL 94-V0 Plastic And Resin
- EMC : Conducted And Radiated Emissions Conform To EN55014 , EN55022, CLASS B
- Immunity Conform To EN61000-3-3,EN61000-4-2, EN61000-4-3,EN61000-4-4,EN61000-4-5,EN61000-4-6, EN61000-4-8, EN61000-4-11

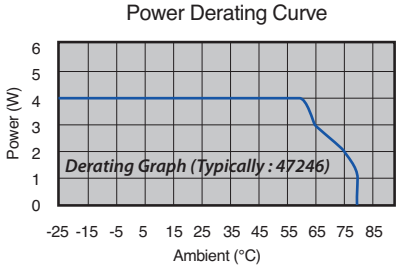
TWO COMMON OUTPUTS						
Reference	**Output 1 Output 2 (DC Volts)**	**Output 1 Output 2 (DC mA)**	**Output Power (W)**	**Output 1 Output 2 accuracy**	**Efficiency (%)**	**Ta (°C)**
47243	+10.5 +7	380 max 100 max	4.7	± 3% +15%	72	+50
47243	+10.5 +7	315 max 100 max	4	± 3% +15%	72	+60
47244	+ 15 +7	300 max 70 max	5	± 3% ± 15%	73	+50
47244	+ 15 +7	234 max 70 max	4	± 3% ± 15%	73	+60
47245	+12 +5.5	130 max 300 max	3.2	± 5% ± 10%	65	+70
47246	+5 +12	400 (600max) 170 max	4	± 3% ± 15%	65	+60
47247	+15 -15	130 max 130 max	4	± 8% ± 8%	73	+60

DIMENSIONS and PINOUT
5 PINS

PRI: Pins 1 – 5: AC Or DC Input
SEC: Pin 6 : DC Output 1 & 2 0V
Pin 7 : DC Output 1 +V
Pin 10 : DC Output 2 +V







Model: Two Common Outputs 3 TO 5W		Specification
AC Input Characteristics	Rated AC input Voltage	100~240Vac Or 140VDC-340VDC
	AC Input Voltage Range	85~265Vac Or 120VDC-370VDC
	AC Input Frequency Range	47Hz~63Hz
	Rated AC Input Frequency	50/60Hz
	Input Current	0.2A Max@85Vac~265Vac, at full load
	Standby Power	0.2W Max (Meet Requirements Of Energy Star And EC Code Of Conduct)
DC Output Characteristics	Output Voltage Accuracy	See Table For 15 To 100% Rated Load Of Each Output (includes line and load variations)
	Efficiency	See Table(Meet Requirements Of Energy Star And EC Code Of Conduct)
Protection Characteristics	Over Current Protection	The power supply shall automatic protection. The power supply shall autorecovery normal operation after the deformation is removed. No excessive heat, odor, or plastic deformation shall occur, no safety hazard
	Output Short Circuit Protection	The power supply shall withstand a continuous output short without damage in 24 hours; The short may be applied before power on, or after power on ; The power supply shall resume normal operation after the short is removed, no excessive heat, odor, or plastic deformation shall occur, no safety hazard
	Over Temperature Protection	The power supply shall shut down when the junction temperature of PWM controller exceeds the thermal shutdown temperature, typically 140°C±10°C.
Environmental	Operation Temperature	-25°C ~ +Ta (see table)
	Operation Humidity	10~ 90% RH(No Condensing) @ full load
	Storage Temperature	-40°C~ +85°C
	Storage Humidity	5%~95%
Safety & EMC Requirement	Dielectric Strength	Primary to Secondary: 4000Vac 5mA, 3 sec.
	Radiation	Meet EN55022,EN55014, Class B. under 3dB margin
	Conduction	Meet EN55022,EN55014,Class B. under 3dB margin
	Safety Standards	Meets all requirements of UL/CUL60950 IEC/EN60950 IEC/EN60335 IEC/EN61558-2-16 CE,VDE, And ENEC Mark VDE Approval No. 40034334 UL Approval No.E352488
Reliability Requirement	MTBF	Calculated by MIL-HDBK-217-F2 550K Hours Min. @230VAC input, 25deg.C
	Burn-In Test	The unit shall be burned in for 2~ 5hours under 230Vac input and DC with full load at an ambient temperature of 30~45 degrees C
Net Weight	About 30 grams per product unit	
Guarantee	This product meet to RoHS standard	

MAIN FEATURES :

- 3 To 5W Small Compact Size - PCB Mount
- Two Isolated Outputs - Regulated
- Output Voltage Accuracy : See Table For 15 To 100% Rated Load Of Each Output (includes line and load variations)
- Input Range : 85VAC - 265VAC/47 - 63Hz Or 120VDC - 370VDC
- Very Low Standby Power Consumption < 0.2W
- Better Energetic Efficiency : Meet Requirements Of Energy Star And EC Code Of Conduct
- Encapsulated Design And Same Footprint As EI30 Transformer: Upgrade Your Application Without Redesign Of PCB
- Safety : Meets All Requirements of: IEC/EN61558-2-16, IEC/EN60950,IEC/EN60335, UL/CUL60950, CE,VDE,ENEC Mark
- Materials : Uses UL 94-V0 Plastic And Resin
- EMC : Conducted And Radiated Emissions Conform To EN55014 , EN55022, CLASS B
- Immunity Conform To EN61000-3-3,EN61000-4-2,EN61000-4-3,EN61000-4-4,EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11

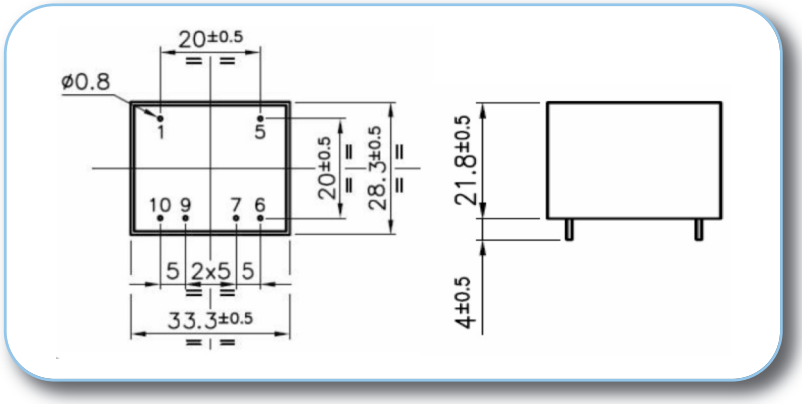
ISOLATED OUTPUT						
Reference	**Output 1 Output 2 (DC Volts)**	**Output 1 Output 2 (DC mA)**	**Output Power (W)**	**Output 1 Output 2 accuracy**	**Efficiency (%)**	**Ta (°C)**
47252	5 5	350 (600max) 350 max	3.5	± 3% +15%	66	+60
47254	12 12	165 (300max) 165 max	4	± 5% ± 15%	72	+60
47255	15 15	135 (200max) 135 max	4	± 5% ± 15%	73	+60
47257	5 12	400 (600max) 170 max	4	± 3% ± 15%	68	+60
47258	18 8	150 (200max) 150 max	4	± 5% ± 15%	72	+60

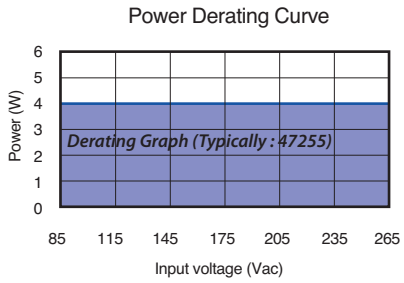
DIMENSIONS and PINOUT
6 PINS

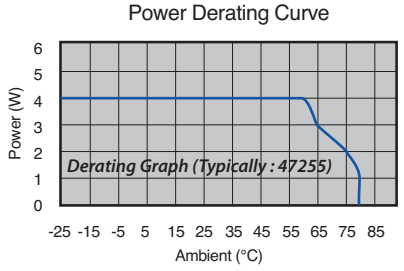
pins 1 & 5 : AC or DC Input
pin 6: DC output1 0V
pin 7: DC output1 +V
pin 9: DC output2 0V
pin 10: DC output2 +V

ISOLATED OUTPUT

Input / Output Isolation test voltage: 4000 Vac
Output1 / Output 2 isolation : 4000Vac







Model: Two Isolated Outputs 3 to 5W		Specification
AC Input Characteristics	Rated input Voltage	100~240Vac Or 140VDC-340VDC
	Input Voltage Range	85~265Vac Or 120VDC-370VDC
	AC Input Frequency Range	47Hz~63Hz
	Rated AC Input Frequency	50/60Hz
	Input Current	0.2A Max@85Vac~265Vac, at full load
	Standby Power	0.2W Max(Meet Requirements Of Energy Star And EC Code Of Conduct)
DC Output Characteristics	Output Voltage Accuracy	See Table For 15 To 100% Rated Load Of Each Output (includes line and load variations)
	Turn On Delay	2S max @ 85Vac~265Vac input and DC output with full load
	Efficiency	See Table (Meet Requirements Of Energy Star And EC Code Of Conduct)
Protection Characteristics	Over Current Protection	The power supply shall automatic protection. The power supply shall auto-recovery normal operation after the deformation is removed. No excessive heat, odor, or plastic deformation shall occur, no safety hazard
	Output Short Circuit Protection	The power supply shall withstand a continuous output short without damage in 24 hours ; The short may be applied before power on, or after power on; The power supply shall resume normal operation after the short is removed, no excessive heat, odor, or plastic deformation shall occur, no safety hazard
	Over Temperature Protection	The power supply shall shut down when the junction temperature of PWM controller exceeds the thermal shutdown temperature, typically 140°C±10°C.
Environmental	Operation Temperature	-25°C ~ +Ta (see table)
	Operation Humidity	10~ 90% RH(No Condensing) @ full load
	Storage Temperature	-40°C~ +85°C
	Storage Humidity	5%~95%
Safety & EMC Requirement	Dielectric Strength	Primary to Secondary: 4000Vac 5mA, 3 sec. Output1 to output2: 4000Vac 5mA, 3 sec
	Radiation	Meet EN55022,EN55014, Class B. under 3dB margin
	Conduction	Meet EN55022,EN55014,Class B. under 3dB margin
	Power Clamp Radiation	EN55014-1:2006+A1:2009+A2:2011
	Lightning Surge	EN61000-4-5:2006, Level II. 1KV
	Electric Fast Transient	Meeting EN61000-4-4:2012, 1KV
	Safety Standards	Meets all requirements of UL/CUL6095 , IEC/EN60950 , IEC/EN60335, EC/EN61558-2-16 , CE,VDE,And ENEC Mark VDE Approval No. 40034334 , UL Approval No.E352488
Reliability Requirement	MTBF	Calculated by MIL-HDBK-217-F2 550K Hours Min. @230VAC input, 25deg.C
	Burn-In Test	The unit shall be burned in for 2~ 5hours under 230Vac input and DC with full load at an ambient temperature of 30~45 degrees C
Net Weight	About 30 grams per product unit	
Guarantee	This product meet to RoHS standard	

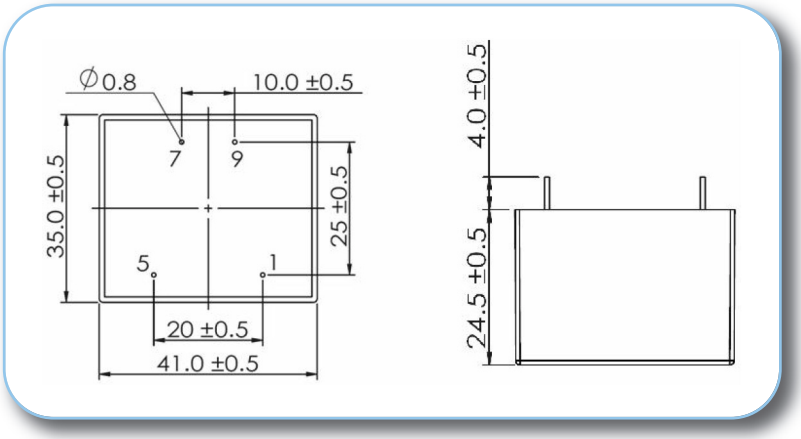
MAIN FEATURES :

- 7.5W Small Compact Size - PCB Mount
- Single Output - Regulated
- Output Range : 3.3VDC - 24VDC
- Input Range : 85VAC - 265VAC/47 - 63Hz Or 120VDC - 370VDC
- Very Low Standby Power Consumption < 0.15W
- Better Energetic Efficiency : Meet Requirements Of Energy Star And EC Code Of Conduct
- Encapsulated Design And Same Footprint As EI38 Transformer: Upgrade Your Application Without Redesign Of PCB
- Safety : IEC/EN61558-2-16,IEC/EN60950,IEC/EN60335, UL/CUL60950,CE,VDE,ENEC Mark
- Materials : Uses UL 94-V0 Plastic And Resin
- EMC : Conducted And Radiated Emissions Conform To EN55014 CLASS B , EN55022 CLASS B And FCC Part 15
- Immunity Conform To EN61000-3-3,EN61000-4-2, EN61000-4-3,EN61000-4-4,EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11

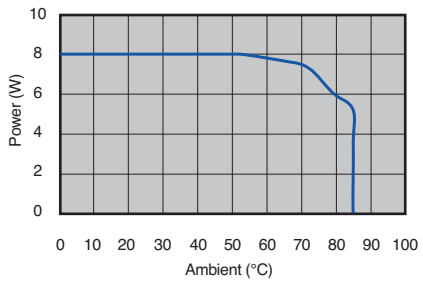
7.5W Regulated							
Reference	**Output (DC Volts)**	**Output (DC mA)**	**Output voltage accuracy**	**Output Power (max W)**	**Load output voltage regulation**	**Efficiency (%) @230VAC**	**Ta (°C)**
47206	3.3	2270	± 3%	7.5	± 3%	>74	+70
47200	5	1500	± 2%	7.5	± 1%	>76	+70
47201	9	830	± 2%	7.5	± 1%	>80	+70
47202	12	625	± 2%	7.5	± 1%	>82	+70
47203	15	500	± 2%	7.5	± 1%	>82	+70
47204	18	420	± 2%	7.5	± 1%	>82	+70
47205	24	310	± 2%	7.5	± 1%	>82	+70

DIMENSIONS and PINOUT
4 PINS

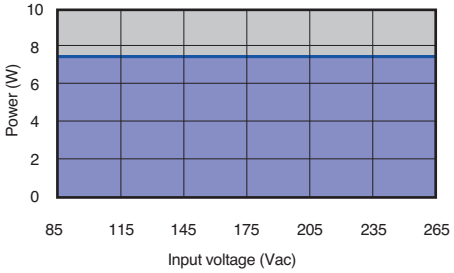
PRI: Pins 1 – 5: AC Or DC Input
SEC: Pin 7 : DC Output +V
Pin 9 : DC Output 0V



Power Derating Curve



Power Derating Curve



myrra
an acal group company

Model: 7.5 Watt		Specification
AC Input Characteristics	Rated AC input Voltage	100~240Vac Or 140VDC-340VDC
	AC Input Voltage Range	85~265Vac Or 120VDC-370VDC
	AC Input Frequency Range	47Hz~63Hz
	Rated AC Input Frequency	50/60Hz
	Input Current	0.3A Max@85Vac~265Vac, at full load
	Standby Power	0.15W Max(Meet Requirements Of Energy Star And EC Code Of Conduct)
DC Output Characteristics	Output Voltage Accuracy	± 2% (5V,9V,12V,15V,18V,24V Types) - ± 3%(3.3V Type)
	Output Voltage Line Regulation	± 0.5%
	Output Voltage Load Regulation	± 1%(5V,9V,12V,15V,18V,24V Types) ± 3%(3.3V Type)
	Ripple & Noise	Max 180mVp-p@ Rated AC input, at nominal line (The measuring will be terminated with a 47uF AL E-Cap and a 0.1uF Cer-Cap. An oscilloscope set at 20MHz bandwidth)
	Efficiency	Meet Requirements Of Energy Star And EC Code Of Conduct
Protection Characteristics	Over Current Protection	The power supply shall automatic protection. The power supply shall autorecovery normal operation after the deformation is removed. No excessive heat, odor, or plastic deformation shall occur, no safety hazard
	Output Short Circuit Protection	The power supply shall withstand a continuous output short without damage in 24 hours; The short may be applied before power on, or after power on; The power supply shall resume normal operation after the short is removed, no excessive heat, odor, or plastic deformation shall occur, no safety hazard
Environmental	Operation Temperature	-20°C ~ +Ta (see table)
	Operation Humidity	10~ 90% RH(No Condensing) @ full load
	Storage Temperature	-40°C~ +85°C
	Storage Humidity	5%~95%
Safety & EMC Requirement	Dielectric Strength	Primary to Secondary: 4000Vac 5mA, 3 sec.
	Radiation	Meet EN55022,EN55014,FCC, part 15, Class B. under 3dB margin
	Conduction	Meet EN55022,EN55014, FCC, part 15,Class B. under 3dB margin
	Safety Standards	Meet all requirements of UL/CUL60950 IEC/EN60950 IEC/EN60335 IEC/EN61558-2-16 CE,VDE and ENEC Mark
Reliability Requirement	MTBF	Calculated by MIL-HDBK-217-F2 550K Hours Min. @230VAC input, 25deg.C
	Burn-In Test	The unit shall be burned in for 2~ 5hours under 230Vac input and DC with full load at an ambient temperature of 30~45 degrees C
Net Weight	About 56 grams per product unit	
Guarantee	This product meet to RoHS standard	

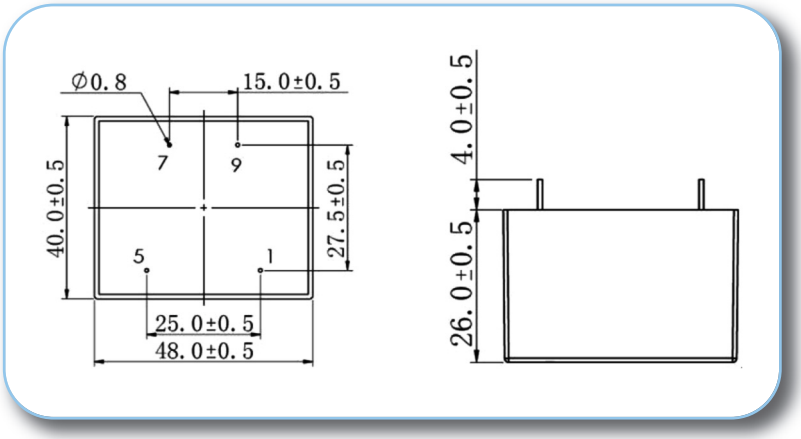
MAIN FEATURES :

- 10W Small Compact Size - PCB Mount
- Single Output - Regulated
- Output Range : 3.3VDC - 24VDC
- Input Range : 85VAC - 265VAC/47 - 63Hz Or 120VDC - 370VDC
- Very Low Standby Power Consumption < 0.1W
- Better Energetic Efficiency : Meet Requirements Of Energy Star And EC Code Of Conduct
- Encapsulated Design And Same Footprint As EI48 Transformer: Upgrade Your Application Without Redesign Of PCB
- Safety : IEC/EN61558-2-16, IEC/EN60950, IEC/EN60335, UL/CUL60950, CE, VDE, ENEC Mark
- Materials : Uses UL 94-V0 Plastic And Resin
- EMC : Conducted And Radiated Emissions Conform To EN55014 CLASS B , EN55022 CLASS B And FCC Part 15
- Immunity Conform To EN61000-3-3, EN61000-4-2, EN61000-4-3,EN61000-4-4,EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11

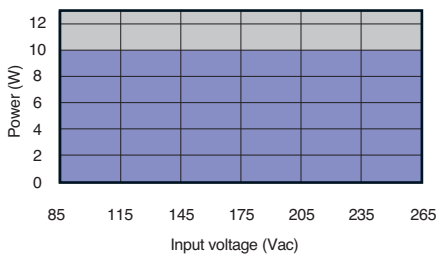
10W Regulated						
Part No	**Power Rating Watts**	**Output Voltage (VDC)**	**Output Current (mA)**	**Ambient Temp. (°C)**	**Efficiency Typical**	**Input Range**
47210	10	5	2000	60	>74%@230VAC	85VAC-265VAC (120VDC-370VDC)
47211	10	9	1100	60	>80%@230VAC	
47212	10	12	830	60	>82%@230VAC	
47213	10	15	670	60		
47214	10	18	560	60		
47215	10	24	420	60		
47216	10	3.3	3000	50	>72%@230VAC	

DIMENSIONS and PINOUT
4 PINS

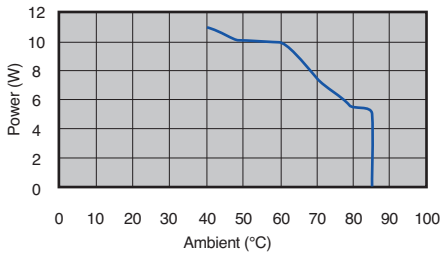
PRI: Pins 1 – 5: AC Or DC Input
SEC: Pin 7 : DC Output +V
Pin 9 : DC Output 0V



Power Derating Curve



Power Derating Curve



Model: 10 Watt		Specification
AC Input Characteristics	Rated AC input Voltage	100~240Vac Or 140VDC-340VDC
	AC Input Voltage Range	85~265Vac Or 120VDC-370VDC
	AC Input Frequency Range	47Hz~63Hz
	Rated AC Input Frequency	50/60Hz
	Input Current	0.4A Max@85Vac~265Vac, at full load
	Input Inrush Current	40A Max @85Vac~265Vac input, cold start, full load
	Standby Power	0.1W Max(Meet Requirements Of Energy Star And EC Code Of Conduct)
DC Output Characteristics	Output Voltage Accuracy	± 2% (9V,12V,15V,18V,24V Types) ± 3% (5V Type) ± 4%(3.3V Type)
	Output Voltage Line Regulation	± 0.5%(9V,12V,15V,18V,24V Types) ± 1%(3.3V and 5V Types)
	Output Voltage Load Regulation	± 1%(9V,12V,15V,18V,24V Types) ± 3% (5V Type) ± 4%(3.3V Type)
	Ripple & Noise	Max 150mVp-p @Rated AC input (The measuring will be terminated with a 47uF AL E-Cap and a 0.1uF Cer-Cap. An oscilloscope set at 20MHz bandwidth)
	Dynamic Response	The output voltage shall not exceed ±10% rated output voltage @ 10%←→90% Load change, 1A/uS , 1KHz 50% duty cycle
	Overshoot	The output voltage shall not exceed +10% rated output voltage @ Power on and 85Vac~265Vac input, and DC with full load
	Undershoot	The output voltage shall not exceed -10% rated output voltage @ Power off and 85Vac~265Vac input and DC output with full load
	Hold Up Time	5mS Min@ 100Vac ~240Vac, DC output with full load
	Turn On Delay	3S max @ 85Vac~265Vac input and DC output with full load
	Rise Time	50ms Max @ 85Vac~265Vac input and DC output with full load
	Efficiency	See table (Meet Requirements Of Energy Star And EC Code Of Conduct)
Protection Characteristics	Over Current Protection	The power supply shall automatic protection. The power supply shall autorecovery normal operation after the deformation is removed. No excessive heat, odor, or plastic deformation shall occur, no safety hazard
	Output Short Circuit Protection	The power supply shall withstand a continuous output short without damage in 24 hours; The short may be applied before power on, or after power on ; The power supply shall resume normal operation after the short is removed, no excessive heat, odor, or plastic deformation shall occur, no safety hazard
	Over temperature protection	The power supply shall shut down when the junction temperature of PWM controller exceeds the thermal shutdown temperature typically 140°C ±10°C.

Model: 10 Watt		Specification
Environmental	Operation Temperature	-25°C ~ +Ta (see table)
	Operation Humidity	10~ 90% RH(No Condensing) @ full load
	Storage Temperature	-40°C~ +85°C
	Storage Humidity	5%~95%
	Cooling Method	Ordinary or thermostat
Safety & EMC Requirement	Dielectric Strength	Primary to Secondary: 4000Vac 5mA, 3 sec.
	Radiation	Meeting EN55022,EN55014,FCC, part 15, Class B. under 3dB margin
	Conduction	Meeting EN55022,EN55014, FCC, part 15,Class B. under 3dB margin
	Power Clamp Radiation	Meeting EN 55014-1: 2006+A1: 2009+A2:2011
	Lightning Surge	Meeting EN61000-4-5:2006, Level II. ±2KV
	Electric Fast Transient	Meeting EN61000-4-4:2012, ±4KV
	Voltage Dips And Interruptions	Meeting EN61000-4-11:2004
	Voltage Fluctuation And Flicker	Meeting EN61000-3-3:2013
	Electrostatic Discharge	Meeting EN61000-4-2:2009 Contact Discharge ±4KV,Air Discharge ±8KV
	RF Field Strength Susceptibility	Meeting EN61000-4-3:2006+A1:2008+A2:2010
	Conducted Susceptibility	Meeting EN61000-4-6:2014
	Power Frequency Magnetic Field Susceptibility	Meeting EN61000-4-8:2010
	Safety Standards	Meet all requirements of UL/CUL60950 IEC/EN60950 IEC/EN60335 IEC/EN61558-2-16 CE,VDE And ENEC Mark
Reliability Requirement	MTBF	Calculated by MIL-HDBK-217-F2 5V ,9V,12V,15V,18V,24V Types: 200K Hours Min. @230VAC input, 60deg.C 3.3V type: 200K Hours Min. @230VAC input, 50deg.C
	Burn-In Test	The unit shall be burned in for 2~ 5hours under 230Vac input and DC with full load at an ambient temperature of 30~45 degrees C
Mechanical	Physical Size	The units do not including PINs of input and output, and dimension is (L)48.0*(W)40.0*(H)26.0± 0.5mm (see appearance drawing)
	Net Weight	About 80.2 grams per product unit.
Guarantee	This product meet to RoHS standard	

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

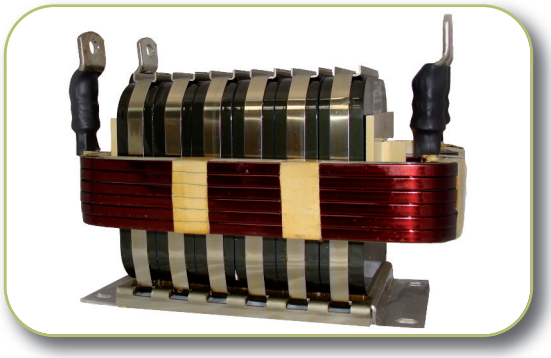
- **Traceability**
  - Parts : Serial Numbers / Barcode
  - Materials : Manufacturer Program / C.O.C.

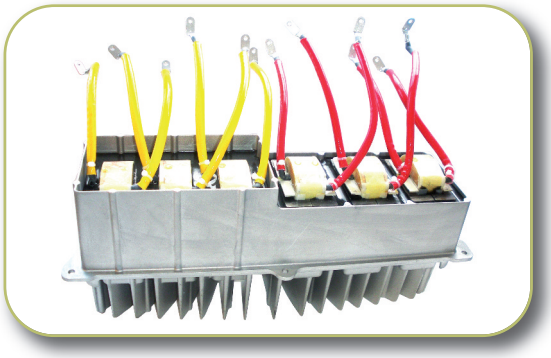
- **Insulation systems :** B, F, H classes
  UL , IEC , CSA compliant

POWER PRODUCTS APPLICATIONS

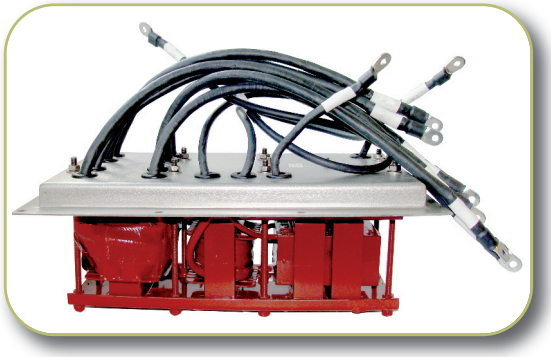
Myrra is able to demonstrate a great adaptability to the needs and the requirements of the customers with a very high level of competence internationally recognized.

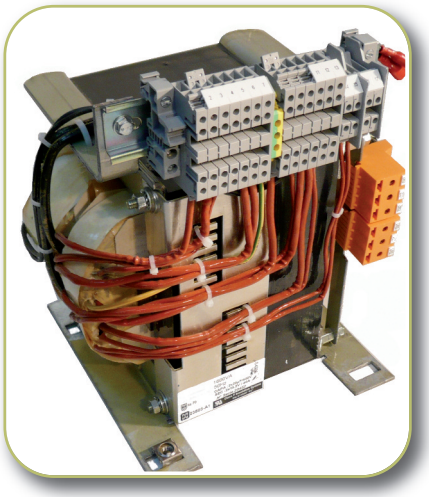
SOLAR



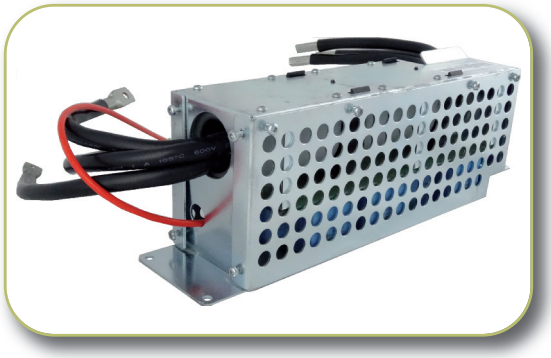


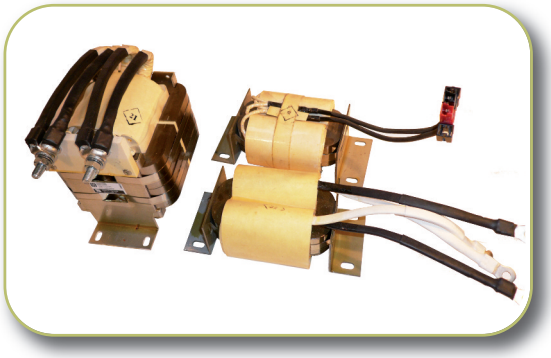
MACHINERY





MOTORDRIVE





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

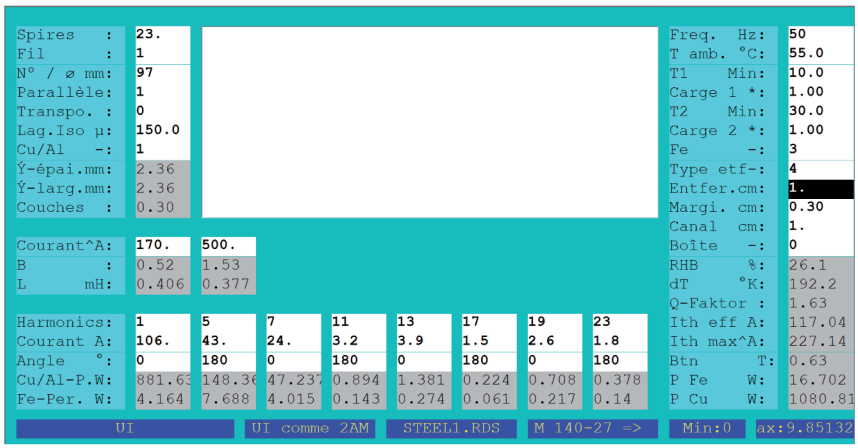
All products are controlled at 100 % during process (1 to 3 times)

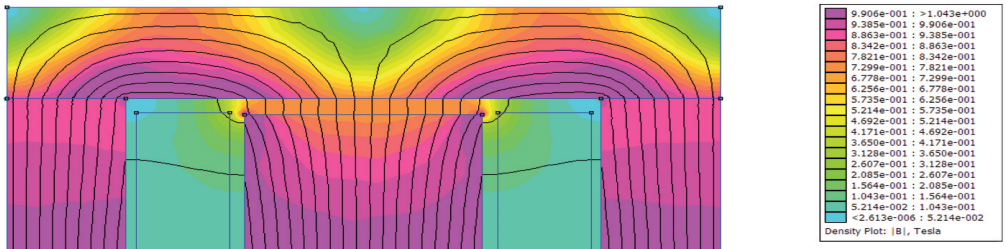
and once again at 100% before packaging (final control).

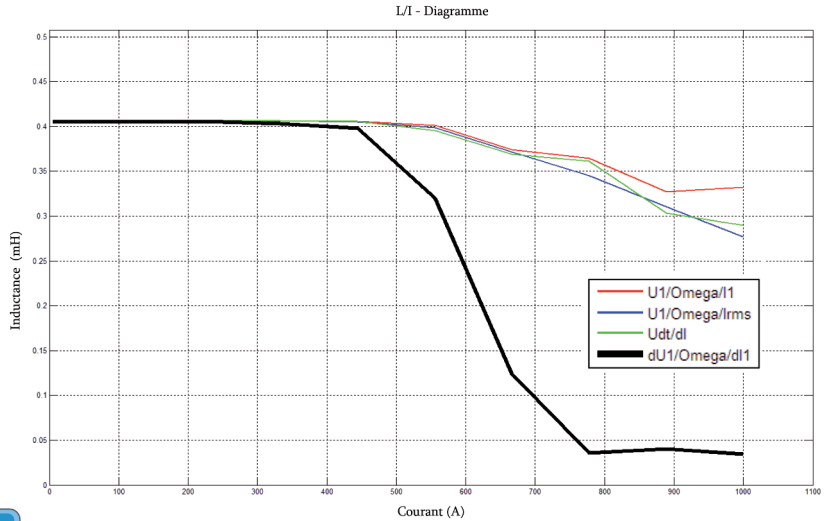
POWER PRODUCTS TESTS and SIMULATION

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



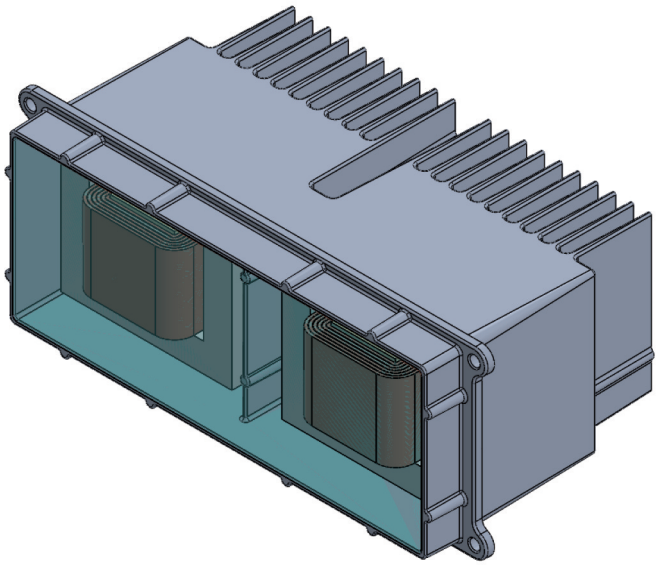




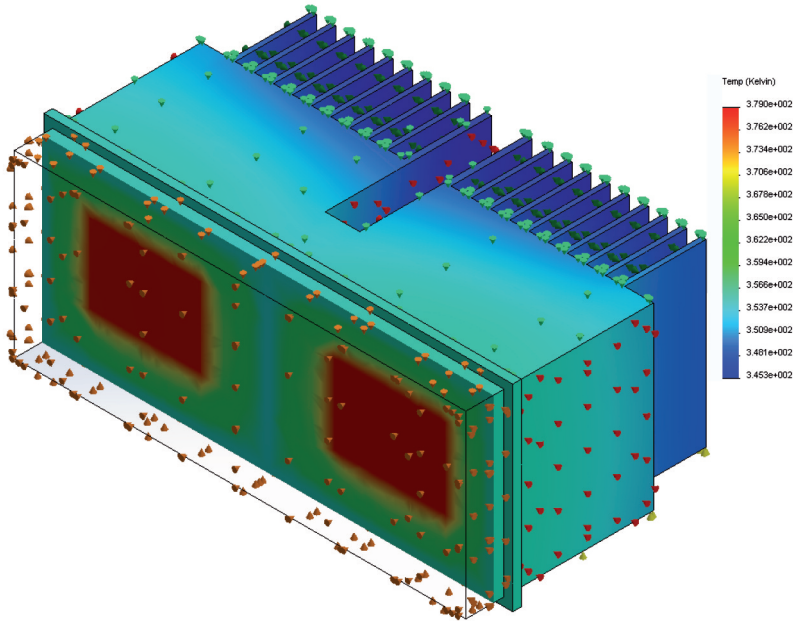
myrra
an acal group company

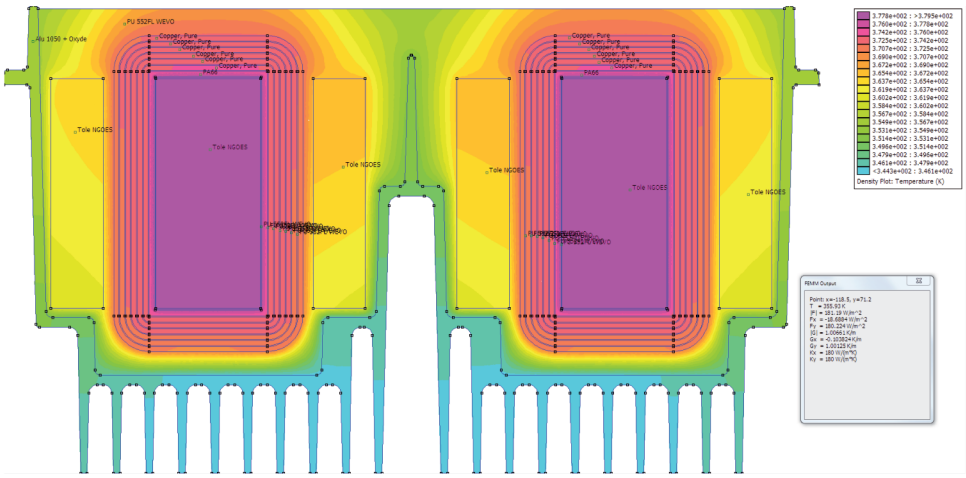
POWER PRODUCTS TESTS and SIMULATION

Mechanical Simulation



Thermal Simulation





www.myrra.com

MYRRA S.A.S. : 2 Boulevard de la Haye - Parc Gustave Eiffel - 77600 Bussy St Georges - FRANCE
Tel : +33 (0)1 60 37 55 55 - Fax : +33 (0)1 60 17 12 00
America : contact.usa@myrra.com
Asia : contact.hong-kong@myrra.com
Europe : contact.europe@myrra.com