TRANSFORMERS

PCB MOUNT TRANSFORMERS

These PCB mount transformers are very compact but still offer high performance, low temperature rise and efficiency. The dual secondaries can be wired in series or parallel offering a wide combination of output voltages.

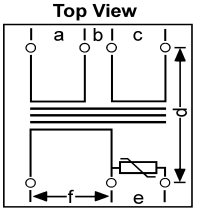
Secondary (SEC) Current A - current available where secondaries are connected in **parallel.**

Secondary (SEC) Current B - current available where secondaries are connected in **series.**

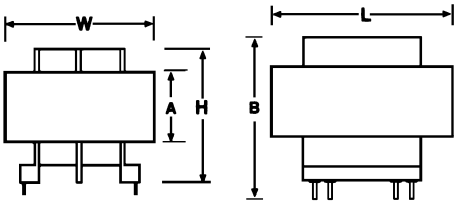
All models fitted with 115°C internal

POWERTRAN

Top View



DIMENSIONS:



Model	A	B	H	L	W
3VA	12.5	36	30	35.5	30
5VA	17	40	35	41.5	33.5
7VA	18	41	36.5	48.5	40.5

Tolerance: ??????
?ll dimensions in mm.

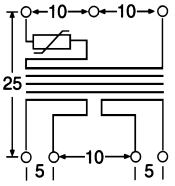
Model	a	b	c	d	e	f
3VA	5	10	5	24	10	10
5VA	5	10	5	25	5	15
7VA	10	5	10	27	10	15

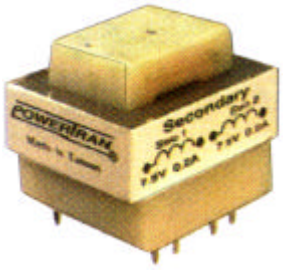
3VA MODEL

Primary Voltage - 240V AC
Total VA rating - 3VA
Insulation - Class A (105°C)
Magnetising current - <20mA
Temperature rise - <65°C
Regulation - ???? ?
Weight - ???g

Approval Certificate No. CS/860/Q

Part Number	Sec V	Sec Parallel	Sec Series
M7012	6 + 6	0.5A	0.25A
M7015	7.5 + 7.5	0.4A	0.2A
M7018	9 + 9	0.33A	0.166A
M7024	12 + 12	0.25A	0.125A
M7030	15 + 15	0.2A	0.1A



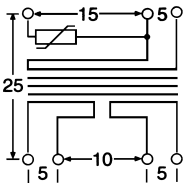


5VA MODEL

Primary Voltage - 240V AC
Total VA rating - 5VA
Insulation - Class A (105°C)
Magnetising current - <25mA
Temperature rise - <65°C
Regulation - ???? ?
Weight - ????g

Approval Certificate No. CS/860/Q

Part Number	Sec V	Sec Parallel	Sec Series
M7052	6 + 6	0.83A	0.416A
M7055	7.5 + 7.5	0.66A	0.33A
M7058	9 + 9	0.55A	0.277A
M7064	12 + 12	0.416A	0.208A
M7070	15 + 15	0.333A	0.166A

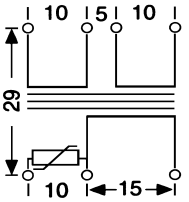


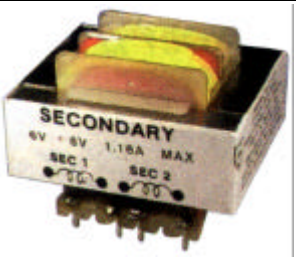
7VA MODEL

Primary Voltage - 240V AC
Total VA rating - 7VA
Insulation - Class A (105°C)
Magnetising current - <30mA
Temperature rise - <65°C
Regulation - ???? ?
Rec. AC Fuse - 100mA
Weight - ????g

Approval Certificate No. CS/339/W

Part Number	Sec V	Sec Parallel	Sec Series
M7112	6 + 6	1.166A	0.583A
M7115	7.5 + 7.5	0.933A	0.466A
M718	9 + 9	0.77A	0.388A
M7124	12 + 12	0.58A	0.29A
M7130	15 + 15	0.466A	0.233A





757 SERIES

Made to the latest Australian standards AS3108, these PCB transformers are rated modestly for their size. Wound on flame retardant nylon 66 bobbins. The primary winding is fitted with an in-built thermal fuse to protect the appliance in the case of a short circuit developing in the secondary winding.

Primary Voltage - 240V AC
Total VA rating - 7VA
Fuse Type - Thermal @ 115°C
Size- 30 x 41 x 33mm HWD
Weight - ????g

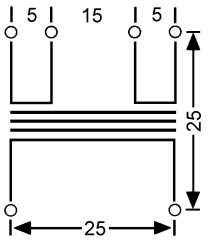
Part Number	Sec V
75712	6 + 6
75715	7.5 + 7.5
75718	9 + 9
75724	12 + 12
75730	15 + 15

Approval Certificate No. CS 98375V

AUSTEL Approval No. A93/MT/0107

DIMENSIONS:

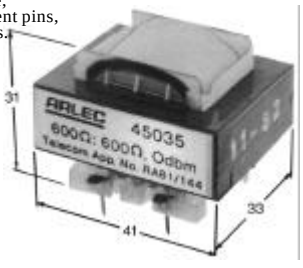
Model	a	b	c	d	e
757	5	15	5	25	25



LINE ISOLATING TRANSFORMERS

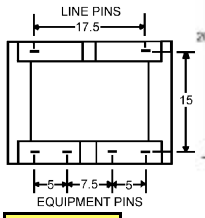
Impedance - 600 ohm line/600 ohm equipment
Turns ratio - 1:1
Maximum level - 0 db m @ 300 Hz
Insertion loss - 1 db max @ 0 dbm, 300 Hz-5 KHz
Frequency response - 300 Hz-10 KHz ?1 db, 0 dbm, 0 DC
Return loss - <15 db, 300 Hz -5 Khz?
Max unbalanced DC - 60 mA (200 mA without damage)
Proof test - 4 KV rms between windings and windings to core
Weight - ???g

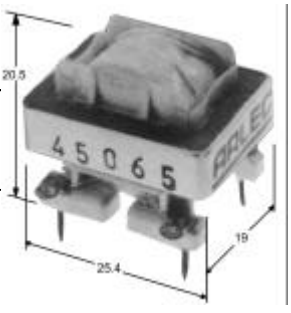
PCB pins, spacing
25 mm equipment to line,
15 mm between equipment pins,
25 mm between line pins.



Part Number **45035**

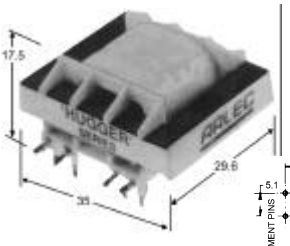
Impedance - 600 ohm line/600 ohm or 150 ohm equipment
Turns ratio - 1:1
Maximum level - +20 dbm @ 200 Hz
Insertion loss - 1 db max @ 0 dbm,
Frequency response - 200 Hz-3 KHz ?1 db, 0 dbm, 0 DC (Can be altered to cover two decades, with high-end frequency up to 150 KHz)
Return loss - <15 db, 200 Hz –30 Khz?
Max unbalanced DC - 5 mA (120 mA without damage)
Proof test - 3.5 KV rms between windings and windings to core
Weight - ??g

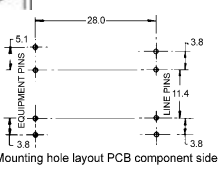




Part Number **45065**

Impedance - 600 ohm line/600 ohm or 150 ohm equipment
Turns ratio - 1:1 ?????
DC current - Up to 60mA DC without alteration of performance
Return loss - 15 db min @ 1 KHZ
Dielectric test - 3.5 KV rms applied between wind ings and from both windings to core.
DC resistance - 65 ohm - 85 ohm
Harmonic distortion - Less than 1% at 300 Hz, 0 dbm, 60 mA DC
Frequency response - 300 Hz-3 KHz
Weight - ??g





Mounting hole layout PCB component side

Part Number **45085**

PH (03) 9873 3555 FAX (03) 9873 3355

TRANSFORMERS

TOROIDAL TRANSFORMERS

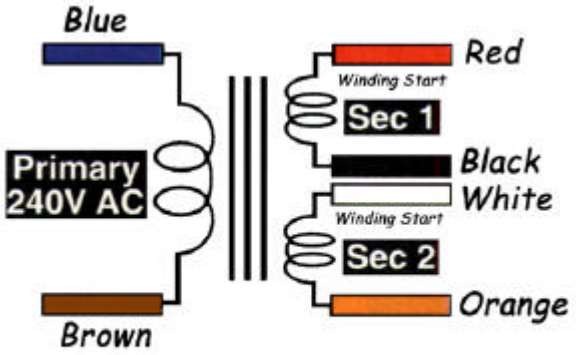
TOROIDAL FEATURES
Each toroidal is supplied with 2 x Rubber Spacing Washers, 1 x Steel Dished Washer, 1 x Mounting Bolt, 1 x Nut (except PCB mount versions).
- Lower electrically induced noise demanded by compact equipment.
- High efficiency enabling conservative rating whilst maintaining size advantages.
- The toroidal transformer is accepted as the industry standard, replacing the laminated type as toroidal transformers offer advantages in size, weight and lower radiated field.
- **All Are Energy Authority Certified**

GENERAL SPECIFICATIONS

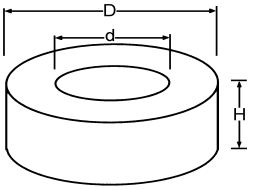
Primary voltage - 240V AC
Regulation - Better than 10%
Maximum temperature rise - 75°C
Dielectric strength - 4000V for 1 minute

Secondary Current A - Current available where secondaries are connected in **parallel.**

Secondary Current B - Current available where secondaries are connected in **series.**



Fly Lead Colours for Dual Secondary Toroidals



Model	D	d	H
30VA	70	23	30
50VA	82	25	31
80VA	87	26	37
160VA	100	26	43
300VA	106	26	57
500VA	126	27	63

Tolerance: ? ?2%

Outside diameter **D** is given as a maximum value.
Inner diameter **d** is given as a minimum value.

30VA RATING

Approval Certificate No. CS 815/Q

Part Number	Sec. V	Secondary Current A	Secondary Current B
M4909	9 + 9	3.3	1.6
M4912	12 + 12	2.5	1.2
M4915	15 + 15	2	1
M4918	18 + 18	1.6	0.8
M4925	25 + 25	1.2	0.6

50VA RATING

Approval Certificate No. CS 815/Q

Part Number	Sec. V	Secondary Current A	Secondary Current B
M5009	9 + 9	5.5	2.7
M5012	12 + 12	4.1	2.0
M5015	15 + 15	3.3	1.6
M5018	18 + 18	2.7	1.3
M5025	25 + 25	2	1

80VA RATING

Approval Certificate No. CS 815/Q

Part Number	Sec. V	Secondary Current A	Secondary Current B
M5109	9 + 9	8.8	4.4
M5112	12 + 12	6.6	3.3
M5115	15 + 15	5.3	2.6
M5118	18 + 18	4.4	2.2
M5125	25 + 25	3.2	1.6

160VA RATING

Approval Certificate No. CS 815/Q

Part Number	Sec. V	Secondary Current A	Secondary Current B
M5309	9 + 9	17.8	8.9
M5312	12 + 12	13.3	6.6
M5315	15 + 15	10.7	5.3
M5318	18 + 18	8.8	4.4
M5325	25 + 25	6.4	3.2
M5330	30 + 30	5.3	2.6
M5340	40 + 40	4	2
M5345	45 + 45	3.5	1.7

300VA RATING

Approval Certificate No. CS 815/Q

Part Number	Sec. V	Secondary Current A	Secondary Current B
M5509	9 + 9	33.3	16.6
M5512	12 + 12	25.0	12.5
M5515	15 + 15	20.0	10
M5518	18 + 18	16.6	8.3
M5525	25 + 25	12.0	6.0
M5530	30 + 30	10.0	5.0
M5535	35 + 35	8.5	4.2
M5540	40 + 40	7.5	3.7
M5545	45 + 45	6.6	3.3

500VA RATING

Approval Certificate No. CS 815/Q

Part Number	Sec. V	Secondary Current A	Secondary Current B
M5725	25 + 25	20.0	10.0
M5730	30 + 30	16.6	8.3
M5750	50 + 50	10.0	5.0
M5765	65 + 65	7.6	3.8

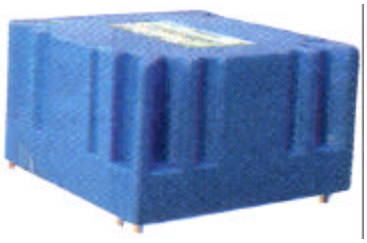
ENCAPSULATED PCB MOUNT TOROIDAL TRANSFORMERS

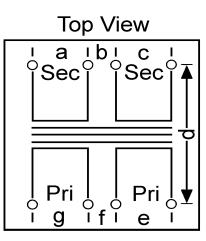
The transformer is "potted" in an epoxy compound within a plastic housing. Configured with 2 x 120V primaries and 2 identical secondaries which can be wired in either series or parallel. Being PCB mount reduces assembly time as the transformer simply solders to the PCB. For extra stability and mechanical reliability the transformer can be secured to the PCB with a self tapping screw.

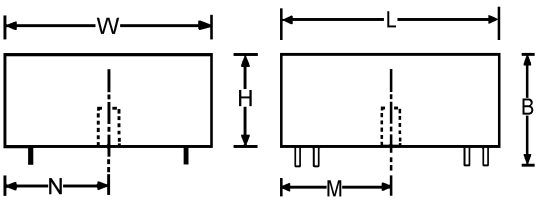
Physical Dimensions

Model	a	b	c	d	e	f	g
10VA	5	34	5	45	5	36	5
30VA	8	37	8	56	8	39	8

Model	B	H	I	M	N	W
10VA	33	28	53	26.5	26.5	53
30VA	38	33	62	31	31	62







10VA PCB MOUNT

Primary Voltage - 2 x 120V AC
Total VA rating - 10VA
Insulation - Class A (105°C)
Magnetising current - <20mA
Temperature rise - <65°C
Regulation - ???? ?
Rec. AC fuse - 100mA
Weight - ?210g

10VA Part Number	Sec. V	Secondary Current A	Secondary Current B
M4312	6 + 6	1.67	0.83
M4315	7.5 + 7.5	1.3	0.66
M4318	9 + 9	1.1	0.5
M4324	12 + 12	0.8	0.4
M4330	15 + 15	0.6	0.3

30VA PCB MOUNT

Primary Voltage - 2 x 120V AC
Total VA rating - 30VA
Insulation - Class A (105°C)
Magnetising current - <30mA
Temperature rise - <65°C
Regulation - ???? ?
Rec. AC fuse - 250mA
Weight - ?450g

30VA Part Number	Sec. V	Secondary Current A	Secondary Current B
M4612	6 + 6	5	2.5
M4615	7.5 + 7.5	4	2
M4618	9 + 9	3.3	1.6
M4624	12 + 12	2.5	1.2
M4630	15 + 15	2	1

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