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For more information, please, contact us:

ATD ELEKTRONIK s.r.o.

Luženice 10
Domažlice
344 01

tel.: +420379723915
fax.: +420379725868
info@atd-elektronik.cz
www.atd-elektronik.cz

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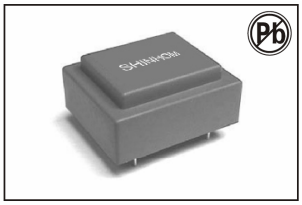


50/60HZ PCB MOUNT TRANSFORMERS – EI RANGE

0.6W EI 30–5–PE3005 SERIES

FEATURES:

- Vacuum filling
- Two compartments bobbins
- Self–extinguishing plastics UL 94 VO
- Degree of protection IP 00
- 40 grams weight

OPTIONS:

- Bulk packaging is standard
- Custom design available

COMMON APPLICATIONS:

- Medical equipments
- Industrial controls
- Industrial computers
- Industrial equipments
- Test equipment
- Avionics & telecom

ELECTRICAL CHARACTERISTICS

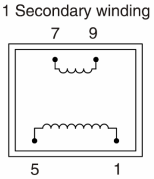
PRIMARY VOLTAGE: 230						PRIMARY VOLTAGE: 115					
Part Number	Secondary voltage V	Secondary Current m A	No–load voltage V	Ambient Temperature ℃	Rating VA	Part Number	Secondary voltage V	Secondary Current m A	No–load voltage V	Ambient Temperature ℃	Rating VA
PE300513	6	100	9.94	T70B	0.6	PE300525	6	100	9.94	T70B	0.6
PE300514	9	66	14.95	T70B	0.6	PE300526	9	66	14.95	T70B	0.6
PE300515	12	50	19.9	T70B	0.6	PE300527	12	50	19.9	T70B	0.6
PE300516	15	40	24.9	T70B	0.6	PE300528	15	40	24.9	T70B	0.6
PE300517	18	33	29.9	T70B	0.6	PE300529	18	33	29.9	T70B	0.6
PE300518	24	25	39.8	T70B	0.6	PE300530	24	25	39.8	T70B	0.6
PE300519	2 × 6	2 × 50	2 × 9.94	T70B	0.6	PE300531	2 × 6	2 × 50	2 × 9.94	T70B	0.6
PE300520	2 × 9	2 × 33	2 × 14.95	T70B	0.6	PE300532	2 × 9	2 × 33	2 × 14.95	T70B	0.6
PE300521	2 × 12	2 × 25	2 × 19.9	T70B	0.6	PE300533	2 × 12	2 × 25	2 × 19.9	T70B	0.6
PE300522*	2 × 15	2 × 20	2 × 24.9	T70B	0.6	PE300534	2 × 15	2 × 20	2 × 24.9	T70B	0.6
PE300523*	2 × 18	2 × 17	2 × 29.9	T70B	0.6	PE300535	2 × 18	2 × 17	2 × 29.9	T70B	0.6
PE300524*	2 × 24	2 × 12	2 × 39.8	T70B	0.6	PE300536	2 × 24	2 × 12	2 × 39.8	T70B	0.6

*Note: non safety transformer approved, conform to EN 61558–2–6 (Isolating transformer).

TECHNICAL INFORMATION

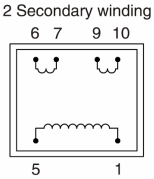
- Resin class B CEI 85 (20000 h testing to CEI 126)
- Inherently short–circuits proof transformer
- UL approved primary versions: 24V, 48V, 240V (production on request)
- Insulation voltage 4 KV
- 100% tested production
- Certification : CCA procedure on request

1 Secondary winding

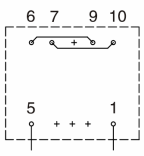


Primary winding

2 Secondary winding

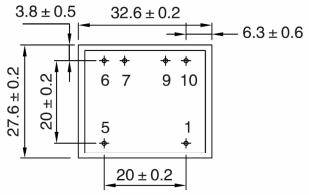


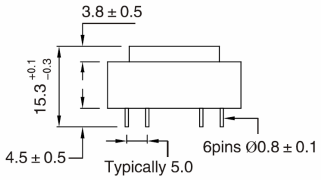
Primary winding



All dimensions in mm

PHYSICAL CHARACTERISTICS





Recommended Drill–hole Diameter for 1.3mm pins

50/60HZ PCB MOUNT TRANSFORMERS – EI RANGE

30W EI 66–23–PE6623 SERIES

FEATURES:

- Vacuum filling
- Two compartments bobbins
- Self–extinguishing plastics UL 94 VO
- Degree of protection IP 00
- 700 grams weight

OPTIONS:

- Bulk packaging is standard
- Custom design available

COMMON APPLICATIONS:

- Medical equipments
- Industrial controls
- Industrial computers
- Industrial equipments
- Test equipment
- Avionics & telecom

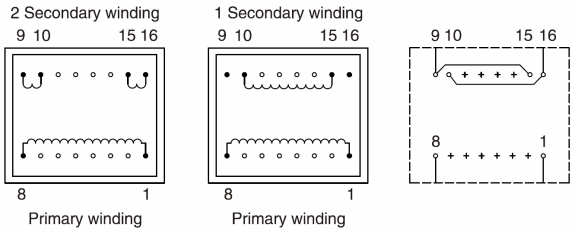
ELECTRICAL CHARACTERISTICS

PRIMARY VOLTAGE: 230						PRIMARY VOLTAGE: 115					
Part Number	Secondary voltage V	Secondary Current m A	No–load voltage V	Ambient Temperature ℃	Rating VA	Part Number	Secondary voltage V	Secondary Current m A	No–load voltage V	Ambient Temperature ℃	Rating VA
PE662373	6	5000	6.9	T50B	30	PE662385	6	5000	6.9	T50B	30
PE662374	9	333	10.3	T50B	30	PE662386	9	333	10.3	T50B	30
PE662375	12	2500	13.8	T50B	30	PE662387	12	2500	13.8	T50B	30
PE662376	15	2000	17.2	T50B	30	PE662388	15	2000	17.2	T50B	30
PE662377	18	1667	20.8	T50B	30	PE662389	18	1667	20.8	T50B	30
PE662378	24	1250	27.7	T50B	30	PE662390	24	1250	27.7	T50B	30
PE662379	2 × 6	2 × 2500	2 × 6.9	T50B	30	PE662391	2 × 6	2 × 2500	2 × 6.9	T50B	30
PE662380	2 × 9	2 × 1667	2 × 10.3	T50B	30	PE662392	2 × 9	2 × 1667	2 × 10.3	T50B	30
PE662381	2 × 12	2 × 1250	2 × 13.8	T50B	30	PE662393	2 × 12	2 × 1250	2 × 13.8	T50B	30
PE662382	2 × 15	2 × 1000	2 × 17.2	T50B	30	PE662394	2 × 15	2 × 1000	2 × 17.2	T50B	30
PE662383	2 × 18	2 × 833	2 × 20.8	T50B	30	PE662395	2 × 18	2 × 833	2 × 20.8	T50B	30
PE662384*	2 × 24	2 × 625	2 × 27.7	T50B	30	PE662396	2 × 24	2 × 625	2 × 27.7	T50B	30

* To be noted : 2 x 24 V non safety transformer approved, conform to EN 61558–2–6 (Isolating transformer).

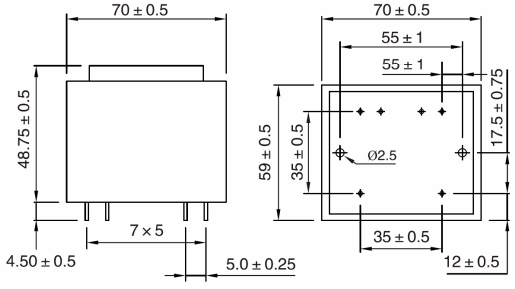
TECHNICAL INFORMATION

- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Fuse protection on primary side (see diagram) to be assumed by customer
- 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



PHYSICAL CHARACTERISTICS

All dimensions in mm



Recommended Drill–hole Diameter for 1.3mm pins
Recommended Drill–hole Diameter for Mountings=4mm

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50/60HZ PCB MOUNT TRANSFORMERS – UI RANGE

1W UI 21 SERIES

FEATURES:

- 115V–230V supply viltage by serie/parallel connection
- Vaccuum filling
- One compartment housing
- Degree of protection IP 00
- 50 grams weight

OPTIONS:

- Bulk packaging is standard
- Custom design available

COMMON APPLICATIONS:

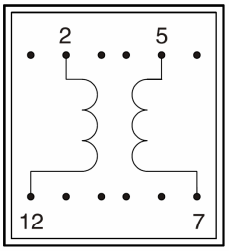
- Medical equipments
- Industrial controls
- Industrial computers
- Industrial equipments
- Test equipment
- Avionics & telecom

ELECTRICAL CHARACTERISTICS

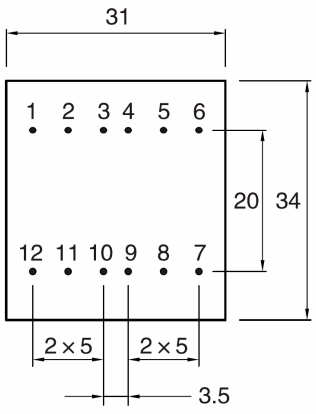
PRIMARY VOLTAGE: 230				
Part Number	Secondary voltage V	Secondary Current m A	No–load voltage V	Ambient Temperature ℃
UI 2101	6	167	11.4	T70B
UI 2102	9	111	17	T70B
UI 2103	12	83	22.8	T70B
UI 2104	15	67	28.5	T70B
UI 2105	18	56	34.2	T70B
UI 2106	24	42	45.6	T70B

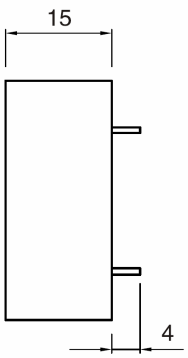
TECHNICAL INFORMATION

- Resin UL 94 VO
- Design protection against short–circuits
- Insulation voltage 4 KV
- 100% tested production



PHYSICAL CHARACTERISTICS





All dimensions in mm

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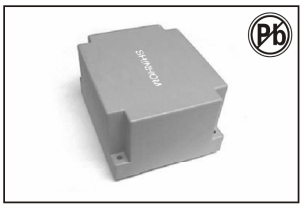
50/60HZ PCB MOUNT TRANSFORMERS – UI RANGE

60W 48 x 26–UI 4826 SERIES



FEATURES:

- 115 V–230 V supply voltage by serie/parallel connection
- Vacuum filling
- Two compartments bobbins
- Degree of protection IP 00

OPTIONS:

- Bulk packaging is standard
- Custom design available

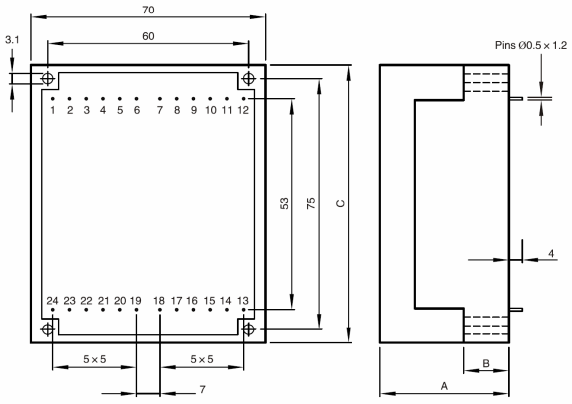
COMMON APPLICATIONS:

- Medical equipments
- Industrial controls
- Industrial computers
- Industrial equipments
- Test equipment
- Avionics & telecom

ELECTRICAL CHARACTERISTICS

PRIMARY VOLTAGE: 115~230				
Part Number	Secondary voltage V	Secondary Current m A	No–load voltage V	Ambient Temperature ℃
UI 482673	2 x 6	2 x 5000	2 x 6.6	T50B
UI 482674	2 x 9	2 x 3333	2 x 9.9	T50B
UI 482675	2 x 12	2 x 2500	2 x 13.1	T50B
UI 482676	2 x 15	2 x 2000	2 x 16.4	T50B
UI 482677	2 x 18	2 x 1667	2 x 19.7	T50B
UI 482678	2 x 24	2 x 1250	2 x 26.3	T50B

PHYSICAL CHARACTERISTICS



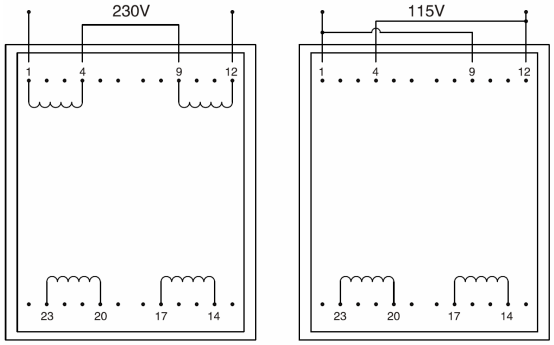
All dimensions in mm

TECHNICAL INFORMATION

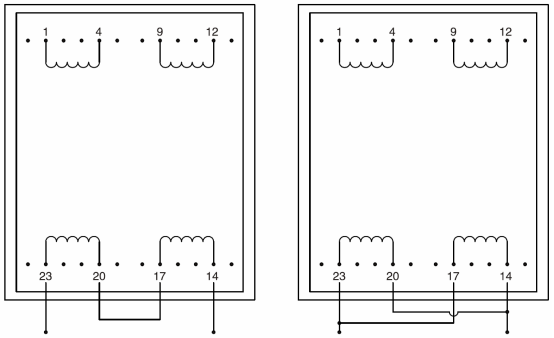
- Resin class UL 94 VO
- Fuse protection in secondary winding (see diagram)
- 100% tested production
- Conform to EN 61558 Approval under process
- UL 506 approved

CIRCUIT	RATING	A	B	C	WEIGHT(g)
UI39 x 8	10VA	38.5	13.5	83	285
UI39 x 10.2	14VA	48.5	14.5	86	335

Possible primary connections



Possible secondary connections



Secondary Vottage doubted

Double the Secondary current

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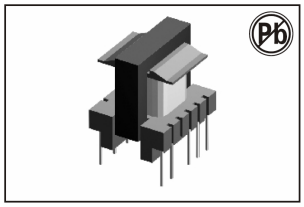


POWER FERRITE TRANSFORMERS

1–6W E16–SINGLE OUTPUT FLYBACK TRANSFORMERS

T 74001, 74002 SERIES

FEATURES:

- Primary / Secondary Insulation ⩾ 4000V
- Primary Auxiliary Insulation ⩾ 1500V
- Creepage distances Primary / secondary ⩾ 6mm

OPTIONS:

- Bulk packaging is standard
- Custom design available

COMMON APPLICATIONS:

- AC–DC converters
- DC–DC converters
- Switch Power supplies
- SMPS: Flyback, Forward and Push–pull
- SMPS: Half Bridge and Full Bridge

ELECTRICAL CHARACTERISTICS

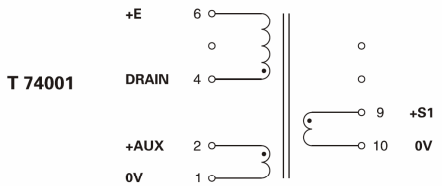
Control IC Manufacturer	Control IC P/N	Input voltage	Power	Frequency
Infineon	TDA16831	185 – 265 Vrms	6 w	100 kHz
Motorola	MC33369	85 – 265 Vrms	6 w	100 kHz
Power Integrations	TOP242P	85 – 265 Vrms	6 w	132 kHz
ST Microelectronics	VIPer20	85 – 265 Vrms	6 w	70 kHz
ST Microelectronics	VIPer20	85 – 265 Vrms	3 w	40 kHz

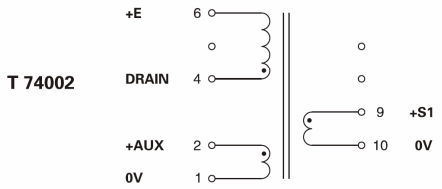
SIZE E16 – SINGLE OUTPUT : 5 or 12V – FLYBACK TRANSFORMER							
Part Number	Output Power max	Windings					
			Pins	Turns	Voltage	Current max	Inductance (+/–10%)
T 74001	6w	Pri	4–6	138	60 – 120 (VOR)	0.35 Apeak	3000 µ H
		Aux	2–1	16	8 – 16 Vdc	0.1 Adc	
		S1	9–10	8	3 – 6 Vdc	1.2 Adc	
T 74002	6w	Pri	4–6	150	60 – 120 (VOR)	0.38 Apeak	3000 µ H
		Aux	2–1	22	8.5 – 17 Vdc	0.1 Adc	
		S1	9–10	24	9 – 18 Vdc	0.5 Adc	

Note: Regulation with auxiliary winding

TECHNICAL INFORMATION

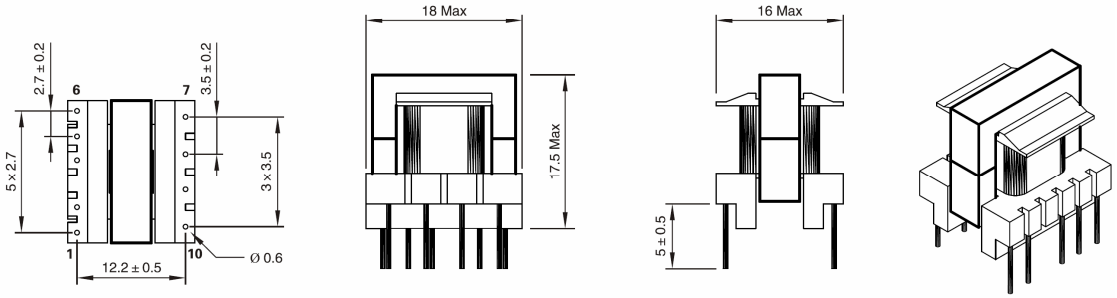
- Ambient temperature < 60℃
- Construction conforms to CEI950, CEI335, CEI61558 for reinforced insulation
- Exclusively uses UL94–VO listed materials





Note: PIN 3 Removed, PCB Drilling Diameter = 1.1mm

PHYSICAL CHARACTERISTICS



All dimensions in mm

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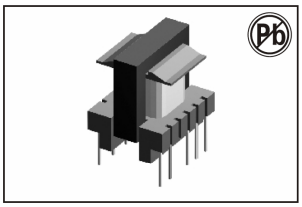
POWER FERRITE TRANSFORMERS

6–12W E16 – 3 OUTPUT FLYBACK TRANSFORMERS

T 74015 SERIES



FEATURES:

- Primary / Secondary Insulation ⩾ 4000V
- Primary Auxiliary Insulation ⩾ 1500V
- Creepage distances Primary / secondary ⩾ 6mm

OPTIONS:

- Bulk packaging is standard
- Custom design available

COMMON APPLICATIONS:

- AC–DC converters
- DC–DC converters
- Switch Power supplies
- SMPS: Flyback, Forward and Push–pull
- SMPS: Half Bridge and Full Bridge

ELECTRICAL CHARACTERISTICS

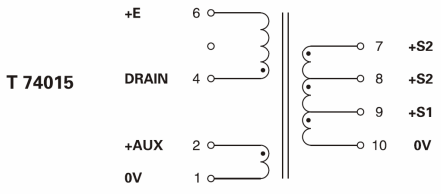
Control IC Manufacturer	Control IC P/N	Input voltage	Power	Frequency
Power Integrations	TNY266	185 – 265 Vrms	10 w	132 kHz
Power Integrations	TNY266	85 – 265 Vrms	8 w	132 kHz
Power Integrations	TOP242P	185 – 265 Vrms	12 w	132 kHz
Power Integrations	TOP242P	85 – 265 Vrms	9 w	132 kHz

SIZE E16 – 2 OUTPUTS : 5 & 12V – FLYBACK TRANSFORMER							
Part Number	Output Power max	Windings					
			Pins	Turns	Voltage	Current max	Inductance (+/–10%)
T 74015	12 w	Pri	4–6	120	110 (VOR)	0.5 Apeak	1800 µ H
		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	

Note: Regulation with auxiliary winding

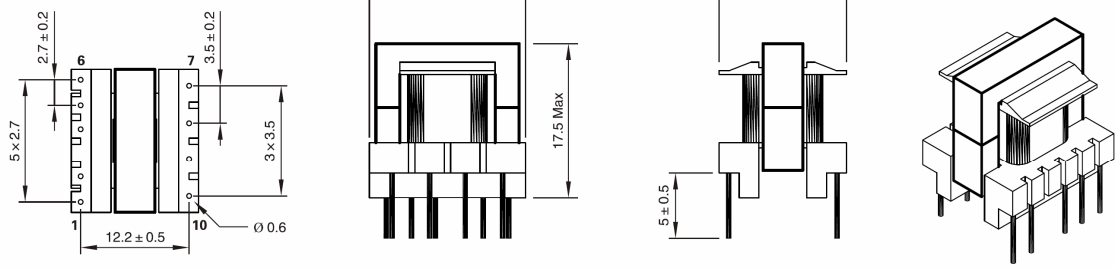
TECHNICAL INFORMATION

- Ambient temperature < 50℃
- Construction conforms to CEI950, CEI335, CEI61558 for reinforced insulation
- Exclusively uses UL94–VO listed materials



Note: PIN 3 Removed, PCB Drilling Diameter = 1.1mm

PHYSICAL CHARACTERISTICS



All dimensions in mm

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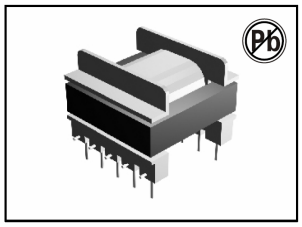
POWER FERRITE TRANSFORMERS

15–30W E25 – 3 or 1 OUTPUT FLYBACK TRANSFORMERS

T 74030, 74032 SERIES



FEATURES:

- Primary / Secondary Insulation ⩾ 4000V
- Primary Auxiliary Insulation ⩾ 1500V
- Creepage distances Primary / secondary ⩾ 6mm

OPTIONS:

- Bulk packaging is standard
- Custom design available

COMMON APPLICATIONS:

- AC–DC converters, • DC–DC converters
- Switch Power supplies
- SMPS: Flyback, Forward and Push–pull
- SMPS: Half Bridge and Full Bridge

ELECTRICAL CHARACTERISTICS

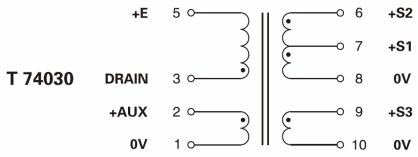
Part No.	Control IC Manufacturer	Control IC P/N	Input voltage	Power	Frequency
T 74030	Fairchild	KA1H0265R	85–265 Vrms	22 w	100 kHz
	Infineon	TDA16832	185–265 Vrms	30 w	100 kHz
	Motorola	MC33371	85–265 Vrms	22 w	100 kHz
	Motorola	MC33371	185–265 Vrms	30 w	100 kHz
	Power Integrations	TOP244P	185–265 Vrms	30 w	132 kHz
	Power Integrations	TOP244Y	85–265 Vrms	25 w	66 or 132kHz
	ST Microelectronics	VIPer50	85–265 Vrms	22 w	70 kHz
	ST Microelectronics	VIPer50	185– 65 Vrms	30 w	70 kHz
T 74032	Power Integrations	TOP244P	185–265 Vrms	25 w	132 kHz

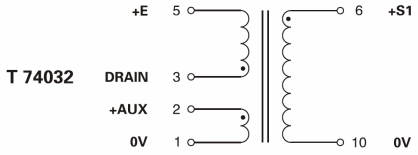
SIZE E25 – 3 or 1 OUTPUTS : 5 + 12/12v or 24v – FLYBACK TRANSFORMER							
Part Number	Output Power max	Windings					
			Pins	Turns	Voltage	Current max	Inductance (+/–10%)
T 74030	30 w	Pri	3–5	70	65–130 (VOR)	1.5 Apeak	750 µ H
		Aux	2–1	8	7–14.5 Vdc	1 Adc	
		S1	7–8	4	3.3–7	3 Adc	
		S2	6–8	9	8–16 Vdc	1.5 Adc	
		S3	9–10	9	8–16 Vdc	1.5 Adc	
T 74032	35w	Pri	3–5	72	65–125 (VOR)	1.1 Apeak	1100 µ H
		Aux	2–1	10	8–16 Vdc	1 Adc	
		S1	6–10	18	15–30 Vdc	1.4 Adc	

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

TECHNICAL INFORMATION

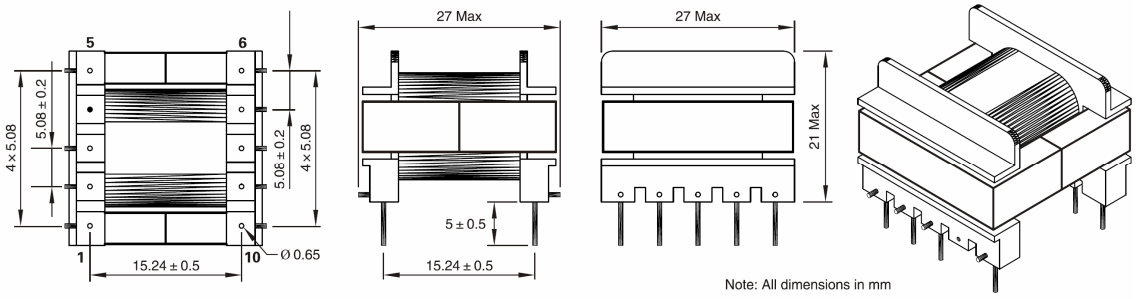
- Ambient temperature < 50℃
- Construction conforms to CEI 950, CEI 335, CEI 61558 for reinforced insulation
- Exclusively uses UL94–VO listed materials





Note: PIN 4 Removed, PCB Drilling Diameter – 1.4mm

PHYSICAL CHARACTERISTICS



Note: All dimensions in mm

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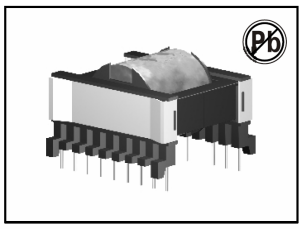
POWER FERRITE TRANSFORMERS

120–180W ETD44 – 4 OUTPUT FLYBACK TRANSFORMERS

T 74070 SERIES



FEATURES:

- Primary / Secondary Insulation ⩾ 4000V
- Primary Auxiliary Insulation ⩾ 1500V
- Creepage distances Primary / secondary ⩾ 8mm

OPTIONS:

- Bulk packaging is standard
- Custom design available

COMMON APPLICATIONS:

- AC–DC converters
- DC–DC converters
- Switch Power supplies
- SMPS: Flyback, Forward and Push–pull
- SMPS: Half Bridge and Full Bridge

ELECTRICAL CHARACTERISTICS

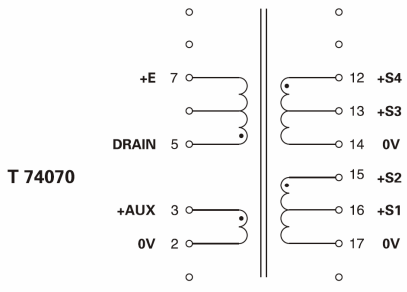
Control IC Manufacturer	Control IC P/N	Input voltage	Power	Frequency
Fairchild	KA2S0965	185–265Vrms	160 w	100 kHz
Infineon	TDA16837	185–265Vrms	160 w	100 kHz
Philips	TEA1566	185–265Vrms	120 w	50 kHz
Power Integrations	TOP248Y	185–265Vrms	180 w	66 or 132 kHz
Power Integrations	TOP249Y	85–265Vrms	120 w	66 kHz

SIZE ETD44 – 4 OUTPUTS : 5 + 12 / 5 + 12v – FLYBACK TRANSFORMER							
Part Number	Output Power max	Windings					
			Pins	Turns	Voltage	Current max	Inductance (+/–10%)
T 74070	180w	Pri	5–7	38	65–125(VOR)	8 Apeak	300 µ H
		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

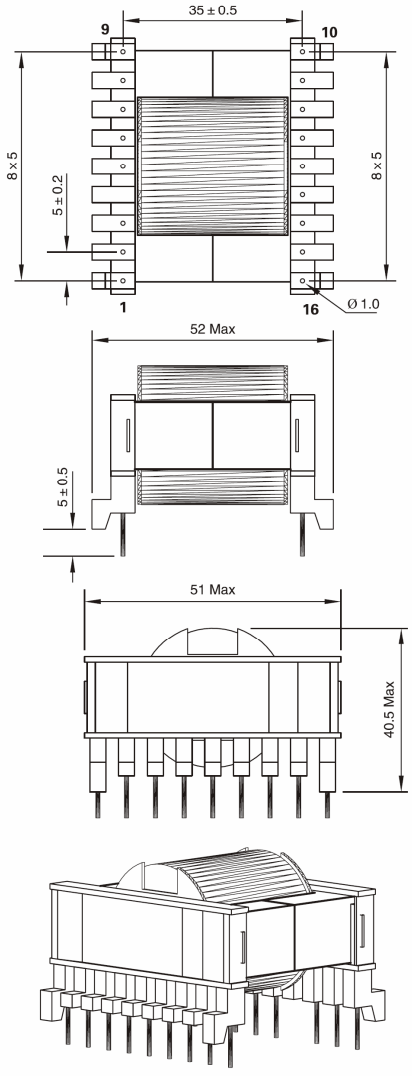
TECHNICAL INFORMATION

- Ambient temperature < 50℃
- Construction conforms to CEI 950, CEI 335, CEI 61558 for reinforced insulation
- Exclusively uses UL94–VO listed materials



Note: PIN 4 Removed, PCB Drilling Diameter = 1.5mm

PHYSICAL CHARACTERISTICS



Note: All dimensions in mm

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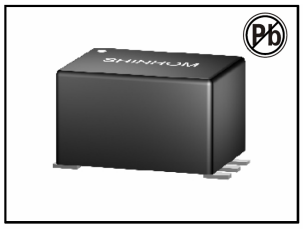


SURFACE MOUNT LINE MATCHING TRANSFORMERS
SM-LP-5001 SERIES

FEATURES:

- Subminiature in SMT
- 7.36mm seated height
- Tested at 4600 Vrms, 1minute
- Distortion of only 0.015%
- Vacuum encapsulated
- UL60950 certified
- RoHS compliant *

OPTIONS:

- Tape and reel is standard (400 pcs. per reel)
- Bulk packaging available for Smaller quantities
- Custom design available
- Tolerance: 5% is standard, Tighter tolerance available

COMMON APPLICATIONS:

- Modems(V32)
- Laptop Computer
- Telecommunications
- Instrumentation
- PCMCIA

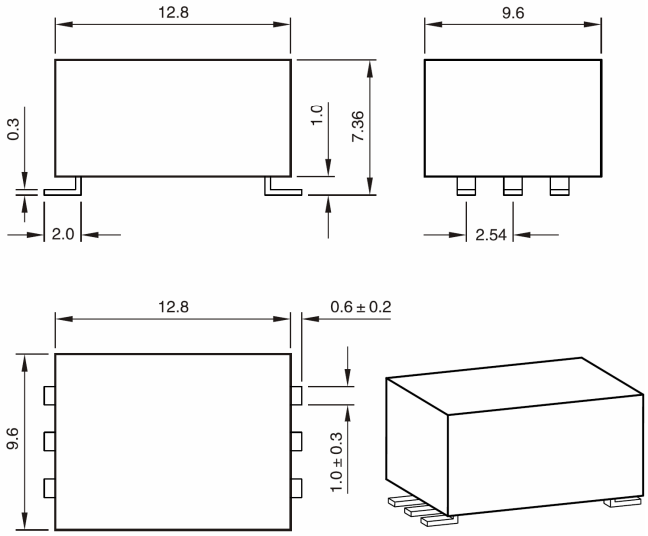
ELECTRICAL CHARACTERISTICS

Nominal Impedance:	600Ω
Turns Ratio:	1:1
Insertion Loss:	2.0dB max. at 2kHz
Frequency Response:	±0.25dB max. 200–4kHz
Return Loss:	24dB min. 200–4kHz *
Balance:	80dB min.
Distortion:	–76dB max. @600Hz, –10dBm
Dielectric Strength:	4600 Vrms for 1 min.
Insulation Resistance:	100MΩ @500V
DC Resistance * *	
Primary:	115Ω ±15%
Secondary:	115Ω ±15%
Shunt Inductance:	3.8H min.
Shunt:	7500Ω min.
Leakage Inductance:	6mH typ. @1kHz
Power Level:	10dBm
Operating Temperature:	–20℃~+85℃
Storage Temperature:	–40℃~+85℃
Terminal Plating Material:	AgSn

* For use with recommended circuit (BS6305 impedance Class A non–speech or Class B speech)

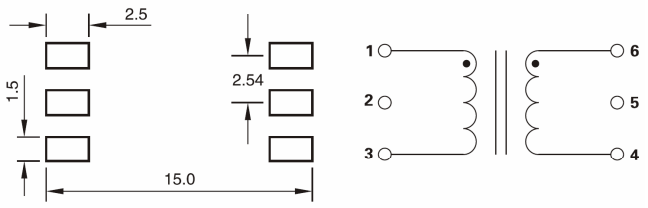
* * SM–LP–5001 is symetrical, meaning there is no real primary nor secondary winding.

PHYSICAL CHARACTERISTICS



Note: All Dimensions in mm

TECHNICAL INFORMATION



Suggested PCB Layout **Schematic**

Note: All Dimensions in mm

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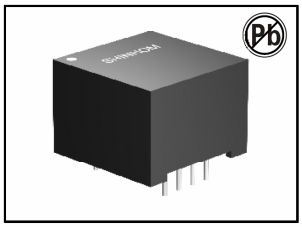

SURFACE MOUNT LINE MATCHING TRANSFORMERS
AT 16XX SERIES

FEATURES:

- Fully encapsulated
- Low profile
- High dielectric strength
- Ten models available
- Ex stock
- Competitively priced
- Lead free
- RoHS compliant *

OPTIONS:

- Tape and reel is standard (400 pcs. per reel)
- Bulk packaging available for Smaller quantities
- Custom design available
- Tolerance: 5% is standard, Tighter tolerance available

COMMON APPLICATIONS:

- Line matching
- Modems
- Fax modems
- Laptop Computer
- Telecommunications
- Instrumentation
- PCMCIA

ELECTRICAL CHARACTERISTICS

Parameters		Unit	Part Number									
			AT1601	AT1602	AT1603	AT1604	AT1605	AT1601A	AT1602A	AT1603A	AT1604A	AT1605A
Ref. Temperature Data		℃	25	25	25	25	25	25	25	25	25	25
Impedance (min./at 1.0kHz)	Primary	Ω	600	600	600	600 (150,150)	600 (150+150)	600	600	600	600 (150,150)	600 (150+150)
	Secondary	Ω	600	600 (150,150)	600 (150+150)	600 (150,150)	600 (150+150)	600	600 (150,150)	600 (150+150)	600 (150,150)	600 (150+150)
Inductance (min./at 0.2 kHz)	Primary	H	2.8	2.8	2.8	2.8 (0.7,0.7)	2.8 (0.7+0.7)	2.8	2.8	2.8	2.8 (0.7,0.7)	2.8 (0.7+0.7)
	Secondary	H	2.8	2.8 (0.7,0.7)	2.8 (0.7+0.7)	2.8 (0.7,0.7)	2.8 (0.7+0.7)	2.8	2.8 (0.7,0.7)	2.8 (0.7+0.7)	2.8 (0.7,0.7)	2.8 (0.7+0.7)
DC–Resistance (Typical/ ± 10%)	Primary	Ω	66	66	66	66 (33,33)	66 (33+33)	90	90	90	90 (45,45)	90 (45+45)
	Secondary	Ω	66	66 (33,33)	66 (33+33)	66 (33,33)	66 (33+33)	90	90 (45,45)	90 (45+45)	90 (45,45)	90 (45+45)
Turns Ratio(≤ ± 2%)		–	1:1	1:1	1:1	1:1	1:1	1:1	1:1	1:1	1:1	1:1
Winding Configurations		–	–	one winding centre tapped	one winding split	both windings centre tapped	both windings split	–	one winding centre tapped	one winding split	both windings centre tapped	both windings split
Insertion Loss (at 2.0kHz)		dB	≤1.5					≤2.0				
Return Loss	Transformer (0.2–4.0kHz)	dB	≥10.0					≥8.0				
	In Networks		≥21.0					≥20.0				
Shunt Loss (Typical)		kΩ	9.0					9.0				
Frequency Response (Typ./0.2~3.5kHz)		dB	–0.3					–0.5				
Wide Band Response(0.2–10kHz)		dB	–2.5					–4.5				
Power Level		dBm	–45.0~+3.0					–43.0~+3.0				
Longitudinal Balance(0.3–4.0kHz)		dB	–80.0					–70.0				
Distortion(0 dB/at 1.0kHz)		%	≤0.1					≤0.25				
Leakage Induction(Typical)		mH	14.0					14.0				
Dielectric Strength(P/S)		kVDC	6.5					6.5				
Temperature Range	Operation	℃	–10~+60					–10~+60				
	Storage	℃	–20~+70					–20~+70				
Specifications Met			BS 6240: Construction and flammability (UL 94 VO) BS 6310: Isolation BS 6305: Return loss (1982/paragraph 4.3.2.2/b)					CCITT: Rec. T/CD 1–1 (Sept. 1982)				

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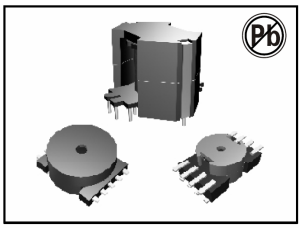
TELECOM TRANSFORMERS
RM & POT SERIES



FEATURES:

- High inductance.
- Low leakage inductance
- Low interwind capacitance
- Compact size and Surface–mounted
- Designed to meet UL, CSA, VDE, BABT safety standard

OPTIONS:

- Tape and reel is standard
- Bulk packaging available for Smaller quantities
- Custom design available
- Tolerance: 5% is standard, Tighter tolerance available
- RM 4, 5, 6, 7, 8, 10, 12, 14 available
- POT 3.2, 4.5, 6, 7, 9, 11, 14, 18, 22, 26, 30, 36, 42, 48 available

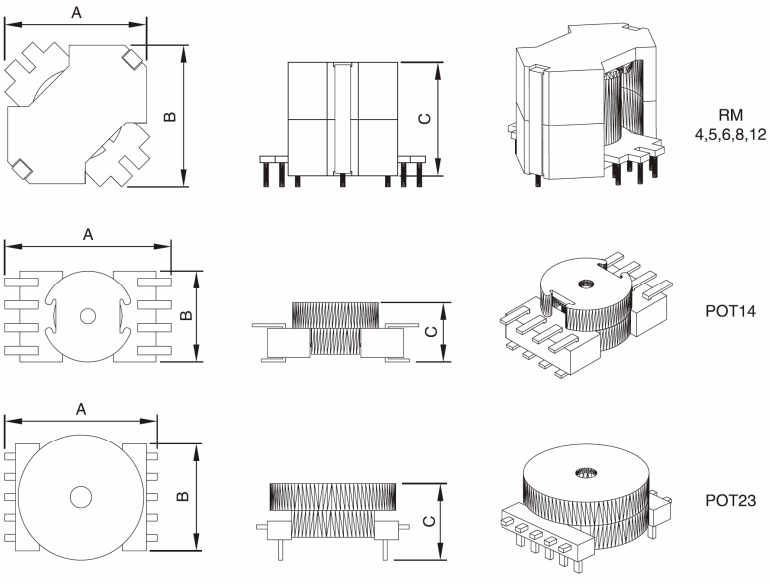
COMMON APPLICATIONS:

- Modem
- Fax machine, Hub
- ISDN, ADSL, HDSL, PABX
- Other telecommunication facilities etc
- Switching power supplies
- AC–DC, DC–DC converters

ELECTRICAL CHARACTERISTICS

Part No.	Inductance(10kHz/0.1V Typ)	Turn Ratio	DCR(Ω max)	Hi–pot (Pri–Sec)	Schematic
RM4	45.2mH ± 35%(3–4)	1:1(2–3:5–6)	2.5:2.5(2–3:5–6)	500VDC	A
RM5	43.5mH ± 6%(1–3=3–4)	1:1(1–3:4–2)	4.6:4.6(1–3:4–2)	1000VDC	B
RM6	20mH ± 6%(2–3 tie 6+5)	1:1(2–5:6–3)	4.0:4.0(2–5:6–3)	850VDC	C
RM8	3.0mH ± 6%(8–6 tie 5+7)	5.24:1(8–6:1–12 tie 5–7)	1.7:1.7:0.42(8–5:7–6:1–12)	2500VAC	D
RM12	140μHmin(3–1=2–11)	1:1:2:2(3–1:12–11:5–6:7–8)	0.012:0.05(3–1=12–11:5–6=7–8)	500VDC	E
POT14	450μH ± 25%(4–1)	3.75:1(4–1:6–8)	0.04:0.012:0.012(4–3:5–7:6–8)	1250VDC	F
POT23	15.5mH ± 10%(1–4 tie 2+3)	1:0.6(1–4:7–9 tie 2+3)	13:7.8(1–4:7–9 tie 2+3)	1500DC	G

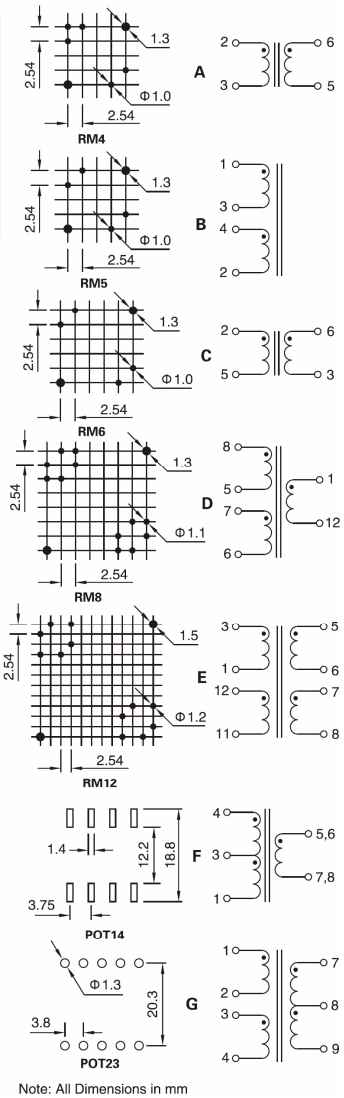
PHYSICAL CHARACTERISTICS



Dimensions(mm)

Part No.	RM4	RM5	RM6	RM8	RM12	POT14	POT23
A	10.5max	13.5max	16.6max	22.0max	31.7max	21.0max	24.4max
B	10.5max	13.5max	16.6max	22.0max	31.7max	15.0max	23.5max
C	11.0max	11.5max	12.7max	17.5max	25.4max	9.0max	11.6max

TECHNICAL INFORMATION



Note: All Dimensions in mm

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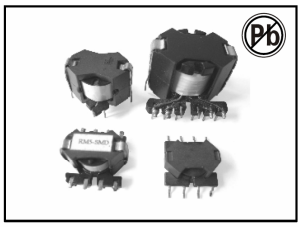
TELECOM TRANSFORMERS & POWER TRANSFORMERS

RM SMD SERIES



FEATURES:

- Low interwind capacitance
- Low total harmonic distortion(THD)
- Compact size and Surface–mounted
- Designed to meet UL, CSA, VDE, BABT safety standard

OPTIONS:

- Tape and reel is standard
- Bulk packaging available for smaller quantities
- Custom design available
- Tolerance: 5% is standard, tighter available
- RM 5, 6, SMD available
- RM 6, 8, 10, 12, 14 Power available

COMMON APPLICATIONS:

- Modem
- Fax machine, Hub
- Power Transformers
- ISDN, ADSL, HDSL, PABX
- Other telecommunication facilities etc
- Switching power supplies
- AC–DC, DC–DC converters

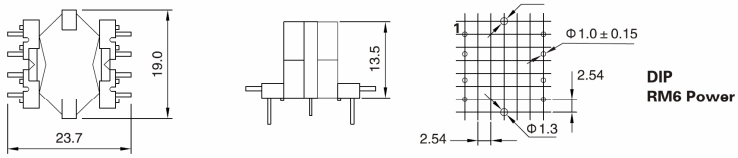
ELECTRICAL CHARACTERISTICS

Part No.	N1 Inductance (1kHz/0.1V Typ)	Turn Ratio	N1 DCR(Ω max)	Hi–pot (Pri–Sec)	Schematic
TP 6012	3.6mH min	N1:N2=1:2.5	4.5	1250V	1
TM 5001	2.5mH min	N1:N2:N3=1:1:3	6.5	1250V	2
TM 5002	1H min	N1:N2:N3:N4=1:1:1:1	30.0	1250V	3

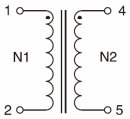
TECHNICAL INFORMATION

- Soldering temperature: 260℃ for 4 ± 1 seconds
- Operating temperature: 0℃ to 70℃
- Storage Temperature: –25℃ to 85℃
- Different package available per special request

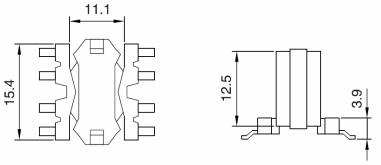
PHYSICAL CHARACTERISTICS



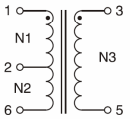
DIP
RM6 Power



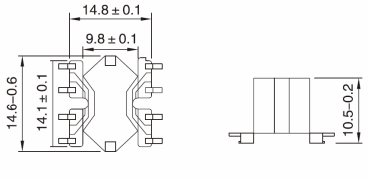
Schematic1



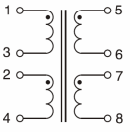
RM5
SMD



Schematic2



RM5
SMD



Schematic3

Note: All Dimensions in mm

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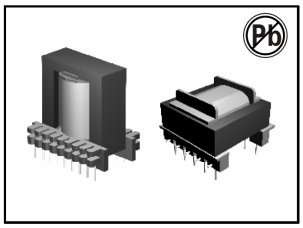


SWITCHING TRANSFORMERS
TEE, TEI SERIES

FEATURES:

- Possessing of high permeability
- High saturation flux density
- Low loss, at 100℃ the power loss goes bottom

OPTIONS:

- Bulk packaging is standard
- Custom design available

COMMON APPLICATIONS:

- Drive transformers
- Main transformers
- Smoothing chokes
- General purpose use

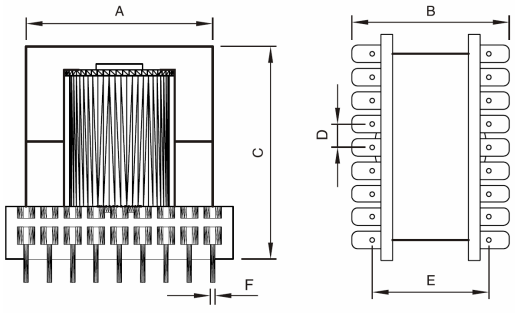
ELECTRICAL CHARACTERISTICS

Part No.	Type	No. of Terminal pins	Dimensions(mm)						Max. output (VA)
			Max	Max	Max	± 0.3	± 0.5	± 0.1	
			A	B	C	D	E	F	
TEI 8.3–A	V	6	8.5	8.5	9.0	2.5	6.0	0.5	3
TEE 8.3–B	H	6	8.5	8.5	7.0	2.5	6.0	0.5	3
TEE 8.3–C	H	4	8.5	9.5	9.0	5.0	6.8	0.5	3
TEI 10–A	V	8	10.5	11.0	11.0	2.5	8.0	0.5	5
TEI 10–B	H	8	11.0	13.0	10.5	2.5	10.5	0.5	5
TEI 10–C	H	4	10.0	9.5	10.0	5.0	6.8	0.5	5
TEI 12.5–A	V	10	13.0	13.0	10.0	2.5	7.5	0.6	8
TEE 12–A	H	4	12.5	11.0	12.5	8.0	9.0	0.6	8
TEE 13–A	V	10	13.5	13.0	12.0	2.5	8.7	0.6	9
TEI 14–A	V	6	14.5	14.5	13.0	3.5	11.0	0.6	15
TEE 16–A	V	6	16.5	13.5	13.0	3.0	9.0	0.6	25
TEE 16–B	H	8	16.5	14.5	15.0	3.0	11.0	0.6	25
TEE 16–C	H	8	16.5	14.5	15.0	3.5	12.0	0.6	25
TEE 16–D	V	10	16.5	13.5	14.5	3.25	10.5	0.6	25
TEE 16–F	H	10	16.5	19.0	14.0	3.2	15.5	0.8	25
TEEL 16–A	V	10	22.0	16.5	30.0	4.0	10.3	0.6	25
TEE 19–A	V	6	20.0	18.0	18.0	4.1	14.0	0.7	35
TEE 19–B	V	6	20.0	16.0	18.0	4.7	11.6	0.6	35
TEE 19–C	H	8	20.0	18.0	16.5	3.8/5	12.5	0.7	35
TEEL 19–A	V	8	20.0	20.5	32.0	3.8/4.8	15.0	0.8	35
TEEL 19–B	H	6	19.5	32.0	13.0	5	24.2	0.8	35
TEEL 19–C	V	10	23.0	16.5	32.0	4	10.0	0.8	35
TEE 20–A	H	8	20.5	19.0	13.0	5	15.0	0.8	35
TEE 22–A	V	10	22.5	16.5	20.0	4	10.2	0.8	45
TEE 22–B	V	8	22.5	17.0	20.0	5	12.4	0.8	45
TEE 22–C	H	9	22.5	24.5	16.5	3.5/5	17.2	0.8	45
TEE 25–A	V	8	25.5	18.0	22.0	5	12.4	0.8	65
TEE 25–B	V	10	26.0	20.5	22.0	5	15.2	0.8	65
TEE25–C	H	10	27.0	24.0	24.0	4.0/5	14.6	0.8	65
TEEL 25–A	H	14	27.5	33.5	21.0	4.0	27.1	0.8	65

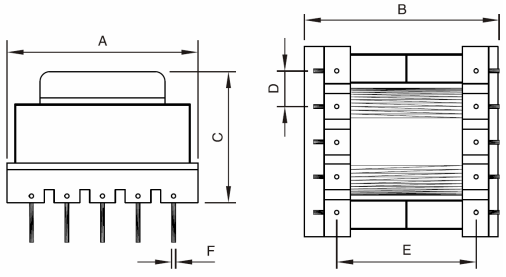
Part No.	Type	No. of Terminal pins	Dimensions(mm)						Max. output (VA)
			Max	Max	Max	± 0.3	± 0.5	± 0.1	
			A	B	C	D	E	F	
TEL 25–B	V	14	27.5	21.0	35.0	4.0	15.0	0.8	65
TEI 28–A	V	12	29.5	25.0	24.0	5.0	17.5	0.8	100
TEI 28–B	V	10	28.5	25.0	35.0	5.0	20.0	0.8	100
TEI 28–C	H	8	28.5	25.0	25.0	5.0	17.5	0.8	100
TEI 30–A	V	10	31.0	22.0	26.0	5.0	17.6	0.8	155
TEI 30–B	V	12	31.0	26.0	26.0	5.0	20.0	0.8	155
TEE 30–A	H	10	30.5	30.0	20.5	5.0	25.0	0.8	155
TEE 30–B	H	12	30.5	30.0	20.5	5.0	25.0	0.8	155
TEI 33–A	V	14	34.0	28.0	30.0	5.0	22.5	0.8	200
TEI 33–B	V	12	34.0	28.0	30.0	5.0	22.5	0.8	200
TEI 33–C	V	16	39.0	29.0	30.0	5.0	22.5	0.8	200
TEE 35–A	H	12	38.0	30.0	26.0	3.8/5.1	22.0	0.8	215
TEE 35–B	V	10	35.5	26.0	28.0	5.0	20.0	0.8	215
TEE 35–C	V	14	35.5	26.0	28.0	5.0	20.0	0.8	215
TEEL 35–A	V	15	36.5	27.5	50.0	5.0	22.5	0.8	215
TEI 35–A	V	12	35.5	28.5	29.0	5/7.5	20.0	1.0	215
TEI 40–A	V	12	40.5	29.0	32.0	5.0	22.5	0.8	345
TEI 40–B	H	12	40.5	37.0	27.0	5.0	28.2	1.0	345
TEI 40–C	V	16	42.0	28.0	35.0	5.0	22.5	0.8	345
TEI 40–D	H	14	40.5	35.0	29.0	5.0	25.8	0.8	345
TEE 42–A	H	16	44.5	42.0	41.5	5.0	34.0	1.0	400
TEE 42–B	H	12	47.0	42.0	39.5	5/7.5	33.0	1.0	400
TEE 42–C	V	18	46.0	32.5	46.0	5.0	27.5	1.0	400
TEE 42–D	V	12	46.0	42.5	37.0	7.4	36.4	1.0	420
TEE 42–E	V	12	43.0	40.5	45.0	5.0	32.5	1.0	420
TEE 42–F	H	17	43.0	47.0	45.0	2.5/5	37.7	1.0	420
TEE 42–G	V	18	46.0	38.0	47.0	5.0	30.0	1.0	420
TEE 50–A	V	18	51.0	40.0	40.0	5.0	30.5	1.0	500
TEE 55–A	H	20	56.0	55.0	50.5	5/7.5	45.2	1.0	814

Note: The output power is only for forward model and the frequency at 100kHz

PHYSICAL CHARACTERISTICS



Type V



Type H

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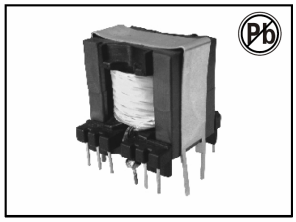
SWITCHING TRANSFORMERS

TPQ SERIES



FEATURES:

- Design in the fittest shape
- Applied in the power: (50W–1kW)100kHz
- Cut down installation cubage with multi–pluge and boobins, easily wire connection to meet the request
- Low leakage

OPTIONS:

- Bulk packaging is standard
- Custom design available

COMMON APPLICATIONS:

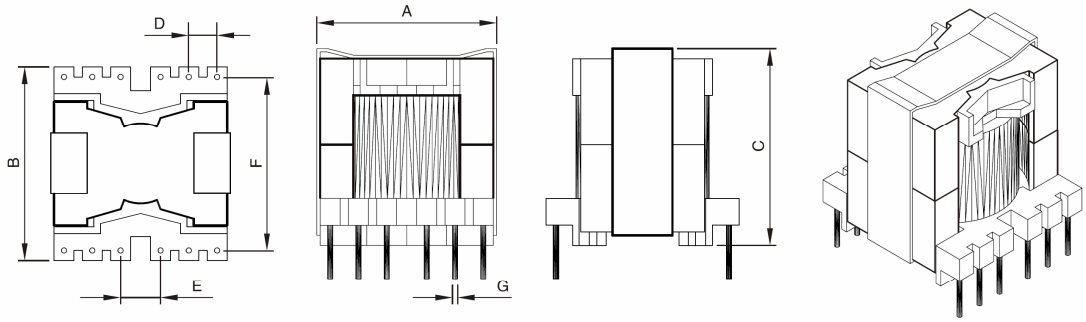
- Drive transformers
- Main transformers
- Smoothing chokes
- Switching power supplies
- AC–DC, DC–DC converters

ELECTRICAL CHARACTERISTICS

Part No.	Type	No. of Terminal pins	Dimensions(mm)							Max. output (VA)
			Max	Max	Max	± 0.3	± 0.4	± 0.5	± 0.1	
			A	B	C	D	E	F	G	
TPQ 2020–A	V	14(6+8)	24.0	24.0	22.0	3.8/2.5	5.1	20.3	0.6	92
TPQ 2620–A	V	12	28.0	32.0	22.0	3.8	7.6	25.4	0.6	170
TPQ 2620–B	V	12	28.0	32.0	21.0	3.8	7.6	25.4	0.6	170
TPQ 2625–A	V	12	28.5	31.0	28.0	3.8	7.5	25.5	0.7	195
TPQ 3220–A	V	12	33.0	35.0	24.0	5.0	7.5	30.0	0.8	232
TPQ 3220–B	V	12	33.0	36.0	22.0	5.1	7.6	30.5	0.8	232
TPQ 3225–A	V	12	35.5	35.0	27.0	5.0	7.4	30.0	0.8	280
TPQ 3230–A	V	12	33.0	36.0	32.0	5.05	7.6	30.3	0.8	331
TPQ 3535–A	V	12	37.0	41.0	38.5	5.0	10.0	35.0	0.8	452
TPQ 4040–A	V	12	41.0	44.0	43.0	5.0	15.1	38.0	0.8	596
TPQ 5050–A	V	12	52.0	53.0	54.0	7.62	15.24	45.72	1.2	1045

Note: The output power is only for forward model and the frequency at 100kHz

PHYSICAL CHARACTERISTICS



Type V

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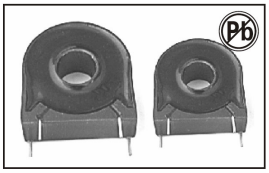
THROUGH–HOLE CURRENT SENSOR TRANSORMER

ACST010–013 SERIES



FEATURES:

- Low profile,directly to PCB.
- PBT 94V0 Case
  burn–resistant epoxy resin,stable.

OPTIONS:

- Bulk is standard
- Custom design acceptable

COMMON APPLICATIONS:

- AC energy Meter Power transducer RTU
- Protection current transformer
- AC kilowatt hour meter
- Electronical monitoring system

ELECTRICAL CHARACTERISTICS:

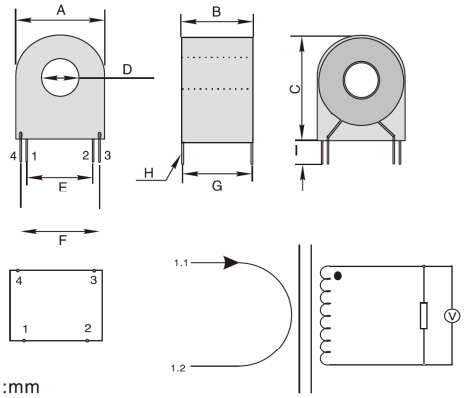
Performance&Specification for High Precision Current Test						
Part Number	Rated primary current(A)	Max primary current(A)	Rated secondary current(mA)	Current ratio	Output ratio (Ω)	Accuracy class
ACST010A/5	5	40	2.5	2000:1	100	0.2,0.5
ACST010A/10	10	40	4	2500:1	100	0.2,0.5
ACST010A/20	20	40	10	2000:1	100	0.1,0.2,0.5
ACST011A/10	10	60	4	2500:1	100	0.1,0.2,0.5
ACST011A/20	20	60	10	2000:1	100	0.1,0.2,0.5
ACST011A/40	40	60	20	2000:1	100	0.1,0.2,0.5
ACST012A/60	60	120	24	2500:1	100	0.1,0.2,0.5
ACST012A/80	80	120	32	2500:1	100	0.1,0.2,0.5
ACST012A/120	120	120	48	2500:1	100	0.1,0.2,0.5
ACST013A/100	100	200	40	2500:1	100	0.1,0.2,0.5
ACST013A/100	100	200	50	2000:1	100	0.1,0.2,0.5
ACST013A/200	200	200	80	2500:1	100	0.1,0.2,0.5

Performance&Specification for Protection Precision Current Test						
Part Number	Rated primary current(A)	Max primary current(A)	Rated secondary current(mA)	Resistance load (Ohm)	Output ratio (Ω)	Accuracy class
ACST010B	5	60	5	100	0.5	0.5,1.0
ACST010B	10	60	10	100	1.0	0.5,1.0
ACST010B	15	60	15	100	1.5	0.5,1.0
ACST011B	20	60	20	100	2.0	0.5,1.0
ACST011B	25	75	25	100	2.5	0.5,1.0
ACST011B	30	75	30	100	3.0	0.5,1.0
ACST012B	40	75	40	100	4.0	0.5,1.0
ACST012B	50	125	50	100	5.0	0.5,1.0
ACST012B	60	125	60	100	6.0	0.5,1.0
ACST013B	75	125	75	100	7.5	0.5,1.0
ACST013B	100	250	100	100	10.0	0.5,1.0
ACST013B	150	250	150	100	15.0	0.5,1.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

- Working Frequency range 20Hz~400Hz
- Insulation resistance: 500V DC >100MΩ
- Hi–Pot : 4000V 1mA 60S
- Temperature range: –25℃ to +85℃
- Storage Temperature: –40℃℃ to +105℃℃
- Resistance to soldering heat:260℃ for 10 seconds
- Marking: Part number and date code

Note:All specifications subject to change without notice.



DIMENSIONS IN:mm

	A	B	C	D	E	F	G	H	I
ACST010	23.5	12.5	25.0	7.0	15.0	18.5	10.5	1.0	6.0
ACST011	26.0	17.0	29.0	9.0	15.0	18.5	15.0	1.0	6.0
ACST012	37.0	14.0	39.0	13.0	25.0	32.5	11.0	1.0	6.0
ACST013	49.0	20.0	54.0	18.5	29.5	37.0	17.5	1.0	6.0

Note:All specifications subject to change without notice.

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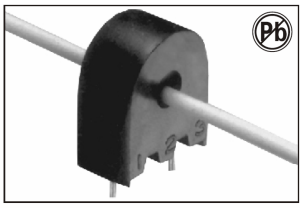
HIGH FREQUENCY CURRENT SENSING TRANSFORMER

ACST SETRIES



FEATURES:

- Meets UL94–V0 Requirements
- Precise Current Sensing

OPTIONS:

- Bulk Packaging is Standard
- Custom Design Available
- Thru Hole Available

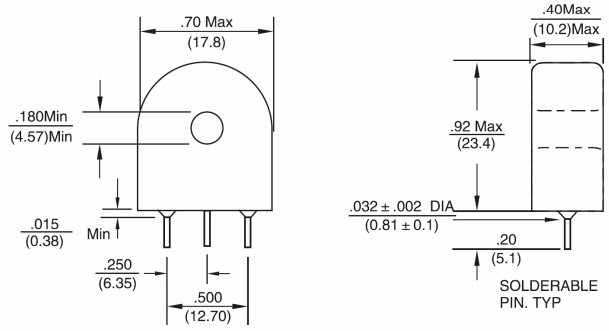
COMMON APPLICATIONS:

- SMPS Control Circuits
- Current Sensing
- Switching power regulators
- Pulse current test

STANDARD SPECIFICATIONS @250C

Part Number	SCHEMATIC	TURNS (± 1% Max)	OCL (mH Min)	DCR (Ω Max)	ET (V– μ SEC–Min)
ACST–001	2A	50	5.0	0.7	150
ACST–002	2A	100	20.0	1.40	300
ACST–003	2A	200	80.0	4.50	600
ACST–004	2A	300	180.0	11.0	900
ACST–005	2B	50CT	5.0	0.7	150
ACST–006	2B	100CT	20.0	1.40	300
ACST–007	2B	200CT	80.0	4.50	600
ACST–008	2B	300CT	180.0	11.0	900
ACST–E51	3	100	2.0	5.50	120
ACST–E52	3	125	3.0	6.50	130

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS



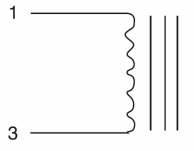


FIG.2A

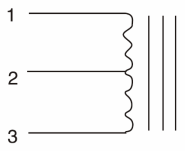
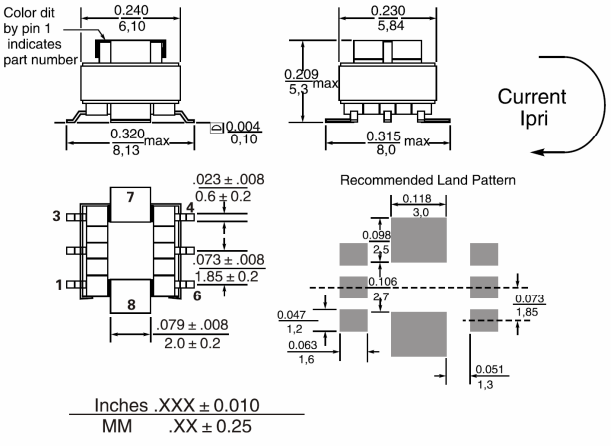


FIG.2B



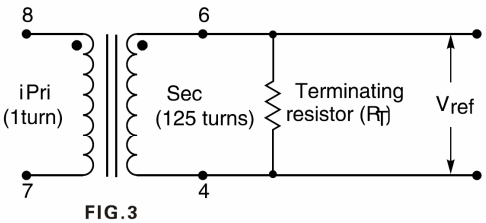


FIG.3

- Working Frequency range:10KHz~1MHz
- Testing Frequency: 10 KHz 0.1VRMS
- Hipot:2000VAC,Primary to Secondary
- Maximum Sensing Current: 20A p–p
- All seconday measurements are in pins 1–3
- Soldering menthods: Wave,Reflow
- Operating Temperature:0℃ to 85℃
- Storage Temperature:–25℃ to 85℃

Note:All specifications subject to change without notice

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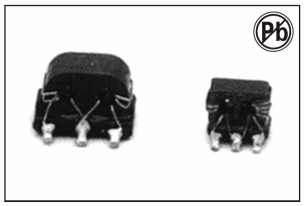


RF Transformers

RF 5S,5SL SERIES

FEATURES:

- Pair wire coil for high stability.
- Base pin terminal treated
- Exellent Frequency Response
- Low Profile Low Cost

OPTIONS:

- Bulk Packaging is Standard
- Custom design available
- dip Available

APPLICATIONS:

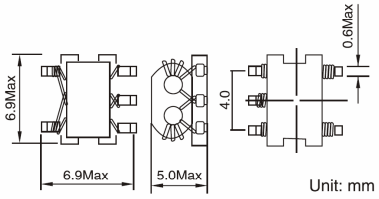
- Double balance mixers,broad–band impedance transformers
- Directional Couplers for Mixers
- Matching Power Combining and Splitting
- Step–Top box and cable modem

STANDARD SPECIFICATIONS

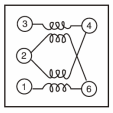
Part Number		Number of Turns per Winding	Operating Frequency Range	Insertion Loss	Fig
Double Balanced Mixer	RF–5S–1012	1	50MHz–400MHz	10dB max.	1
	RF–5S–1013	2	100MHz–1.0GHz	6dB max.	1
	RF–5S–1003	3	8MHz–800MHz	3.5dB max.	1
	RF–5S–1008	4	6MHz–600MHz	2.5dB max.	1
	RF–5S–1011	5	5MHz–500MHz	2dB max.	1
	RF–5S–1005	2	400MHz–1.3MHz	4dB max.	1
Frequency Mixer	RF–5S–1085	1	—	3dB max.	2
	RF–5S–1052	2	9MHz–350MHz	3dB max.	2
	RF–5S–1024	3	3.5MHz–470GHz	3dB max.	2
	RF–5S–1086	4	2.2MHz–400MHz	3dB max.	2
	RF–5S–1087	5	1.5MHz–300MHz	3dB max.	2
Power Divider /Combiner	RF–5S–1014		20MHz–600MHz	IN to OUT–1.2 4.5dB max. OUT–1 to OUT–2 (ISOLATION) 10dB min.	6
Directional Coupler	RF–5S–1015	4	6MHz–600MHz	IN to OUT–11.3dB max. IN to OUT–2.11dB –14dB	7
	RF–5S–1006	5	6MHz–600MHz	IN to OUT–10.9dB max. IN to OUT–2.13dB –16dB	7
	RF–5S–1007	6	6MHz–600MHz	IN to OUT–10.8dB max. IN to OUT–2.15dB –17dB	7
Double Balanced Mixer	RF–5SL–1001	2	30MHz–850MHz	3dB	1
	RF–5SL–1002	3	6.5MHz–1000MHz	3dB	1
	RF–5SL–1003	4	3.5MHz–1600MHz	3dB	1
	RF–5SL–1004	5	2.5MHz–1500MHz	3dB	1
Frequency Mixer	RF–5SL–1027	1	—	3dB	2
	RF–5SL–1028	2	8MHz–550MHz	3dB	2
	RF–5SL–1029	3	3.5MHz–500MHz	3dB	2
	RF–5SL–1030	4	2MHz–370MHz	3dB	2
	RF–5SL–1037	1	—	3dB	2
	RF–5SL–1038	2	500MHz–850MHz	3dB	2
	RF–5SL–1039	3	240MHz–500MHz	3dB	2
	RF–5SL–1040	4	85MHz–380MHz	3dB	2
Balun Transformer	RF–5SL–1048	$1_{1/2}$	5.5MHz–850MHz	3dB	3
	RF–5SL–1049	$2_{1/2}$	2.5MHz–2200MHz	3dB	3
	RF–5SL–1050	$3_{1/2}$	1.2MHz–1700MHz	3dB	3
	RF–5SL–1051	$4_{1/2}$	0.8MHz–1400MHz	3dB	3
	RF–5SL–1078	$5_{1/2}$	0.6MHz–1300MHz	3dB	3
Balun Transformer	RF–5SL–1053	$1_{1/2}$	160MHz–2200MHz	3dB	4
	RF–5SL–1017	$2_{1/2}$	55MHz–1700MHz	3dB	4
	RF–5SL–1054	$3_{1/2}$	30MHz–1400MHz	3dB	4

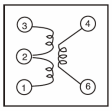
Note:1. K=±10%,M=±20%

PHYSICAL CHARACTERISTICS



Pin Connections


Flg.1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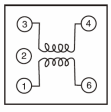
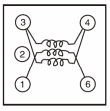
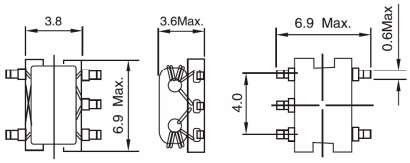
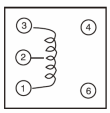
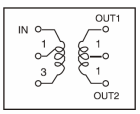

Flg.3

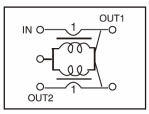

Flg.4




Flg.5



Distributor/Flg.6



Directional Coupler/Flg.7

TECHNICAL INFORMATION:

- Soldering methods: Wave,Reflow
- Operating Temperature: 0℃ to 70℃
- Storage Temperature: –55℃ to 125℃

Note: All specifications subject to change without notice.

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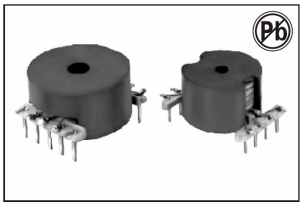
ADSL CENTRAL OFFICE POTS SPLITTER

ADSL–205,213 SERIES



FEATURES:

- Exellent Longitudinal Balance
- DC Current up to 100mA

OPTIONS:

- Bulk Packaging is Standard
- Custom design available
- SMT Available

COMMON APPLICATIONS:

- ADSL Central Office
- POTS Filter

STANDARD SPECIFICATIONS

Part Number	Turns Ratio	OCL (mH)	DCR (Ω Max)	Schematic	Package
ADSL–205	1CT:1	4.0 ± 5%	3.00	1	A
ADSL–206	1CT:1	3.0 ± 5%	2.50	1	A
ADSL–207	1CT:1	2.25 ± 10%	2.25	1	A
ADSL–208	1CT:1	1.425 ± 10%	2.25	1	A
ADSL–209	1CT:1	1.65 ± 10%	2.25	1	A
ADSL–210	1CT:1	1.35 ± 10%	2.25	1	A
ADSL–211	1:1	4.0 ± 5%	3.00	2	B
ADSL–212	1:1	10.0 ± 5%	5.00	2	B
ADSL–213	1:1:1:1	0.6 ± 5%	2.00	3	B

Note:1. K=±10%,M=±20%

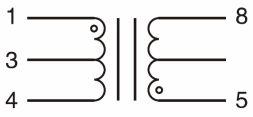
TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

- Soldering methods: Wave,Reflow
- Operating Temperature: 0℃ to 70℃
- Storage Temperature: –55℃ to 125℃

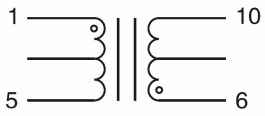
Note:All specifications subject to change without notice.

Hipot:1500VRMS.
Inductance Measured at 1KHz,100mA

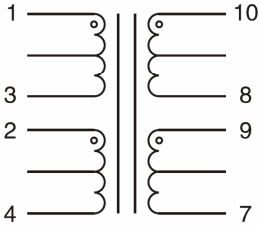
Schematic1



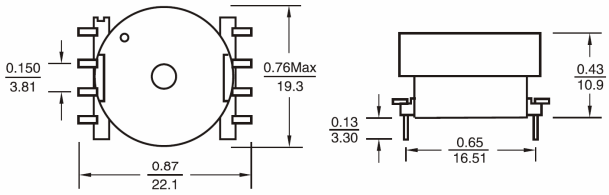
Schematic2



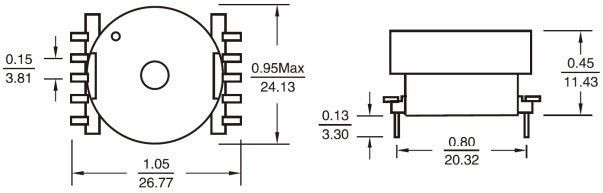
Schematic3



Package A



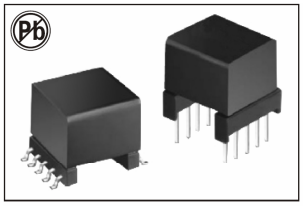
Package B



Dimensions: Inches (mm)

Patron
Passive Elektronic

ATD ELEKTRONIK s.r.o.



ADSL TRANSFORMERS

ADSL–100 SERIES

FEATURES:

- High Frequency Design
- Excellent THD
- High Reliability

OPTIONS:

- Tape & Reel is Standard
- Custom design available

COMMON APPLICATIONS:

- ADSL VDSL Router
- Analog Devices,Alcatel,Globespan.
- Central Office/Customer Premise

STANDARD SPECIFICATIONS

Part Number	Application	Turns Ratio ±2% Line to Chip	OCL (mH ± 10%) Line Sice	L_L (μH Max)	Longitudinal Balance (dB Min)	DCR (Ω Max.) Line Side	THD (dB Min)	SCH	Applicable IC
ADSL–101	CPE	1:1	5.0 (1)	15 (2)	40(25KHz–1.1MHz)	3.0	80@30KHz	1	AD20msP910/918
ADSL–102	CPE	1:1	0.48 (1)	10 (2)	40(30KHz–1.1MHz)	1.0	72@10KHz	1	MTK–20/40
ADSL–102A	CO	1:1	0.41 (1)	6.5 (2)	40(30KHz–1.1MHz)	0.6	72@20KHz	1	MTK–20/40
ADSL–103	CPE	2:1	0.43 (3)	10 (4)	40(25KHz–1.1MHz)	0.45	80@100KHz	2	G7000
ADSL–105	CPE	1:1	0.407 (1)	9 (2)	40(25KHz–1.1MHz)	0.66	80@100KHz	1	EL–1501

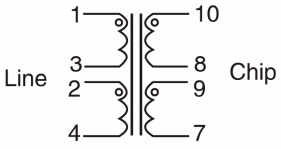
Inertion Loss: 0.5dB max Inductance measured @10KHz 0.1 VRMS Hipot: 1500 VRMS
Remark: Add "S" after Part No. for SMT package
Example: ADSL–101S for SMT Package: Package B
Notes:
1. Measure inductance at pin 1–4 with pin 2–3 shorted.
2. Measure leakage inductance at pin 1–4 with 2–3 shorted,and 7–8–9–10 shorted.
3. Measure inductance at pin 1–5 with pin 2–4 shorted.
4. Measure leakage inductance at pin 1–5 with 2–4 shorted,and pin 6–9–7–10 shorted.

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

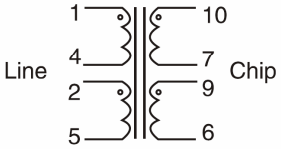
- Soldering methods:Wave,Reflow
- Operating Temperature:0℃ to +70℃
- Storage Temperature:–55℃ to 125℃

Note:All specifications subject to change without notice.

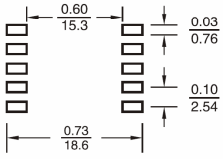
Schematic 1



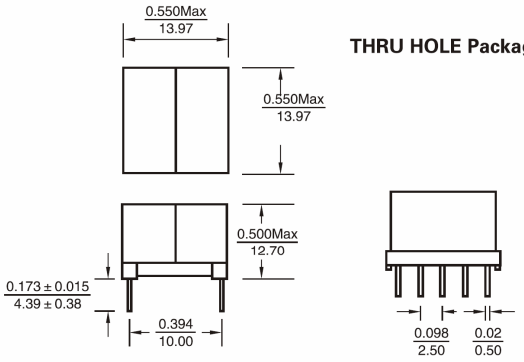
Schematic 2



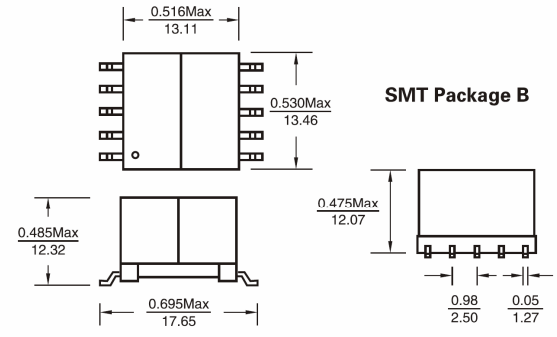
Recommended Pad Layout



THRU HOLE Package A



SMT Package B



Dimesions: Inches/mm

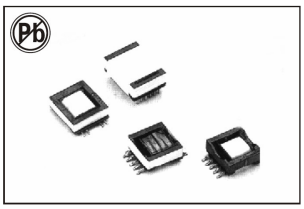
Patron
Passive Elektronic

ATD ELEKTRONIK s.r.o.

SMD LOW PROFILE SWITCHING TRANSFORMER

SPT SERIES

SPT–01,02,03



FEATURES:

- Multiple Combination
- Series Mode or Parallel Mode
- Low Profile

OPTIONS:

- Bulk Packaging is Standard
- Custom Design Available
- Thru Hole Available

COMMON APPLICATIONS:

- SMPS DC–DC converter
- CMC,Differential
- Flyback,Boost,Buck
- ADSL/VDSL
- Switching power supplier

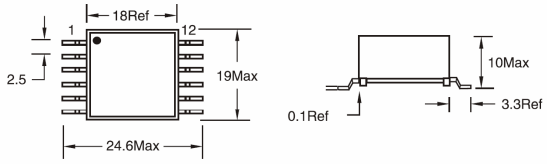
STANDARD SPECIFICATIONS @250C

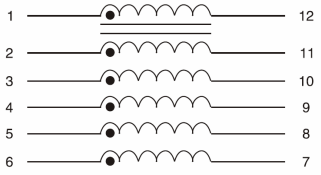
Part Number		L(μH) ±20%	Leakage (μH) Typ.	DCR Max (Ω) Max	1rms Typ (mA) Typ.
SPT–01 EFD–17 Package	SPT–01–3R8	3.8	0.08	0.06	1.8
	SPT–01–5R0	5.0	0.08	0.06	1.8
	SPT–01–6R2	6.2	0.08	0.06	1.8
	SPT–01–11R5	11.5	0.08	0.06	1.8
	SPT–01–700	70	0.08	0.06	1.8
SPT–02 EFD–15 Package	SPT–02–3R8	3.8	0.06	0.07	1.5
	SPT–02–4R5	4.5	0.06	0.07	1.5
	SPT–02–6R8	6.8	0.06	0.07	1.5
	SPT–02–11R3	11.3	0.06	0.07	1.5
	SPT–02–630	63	0.06	0.07	1.5
SPT–03 EFD–20 Package	SPT–03–3R5	3.5	0.11	0.05	2.1
	SPT–03–4R5	4.5	0.11	0.05	2.1
	SPT–03–5R3	5.3	0.11	0.05	2.1
	SPT–03–100	10	0.11	0.05	2.1
	SPT–03–770	77	0.11	0.05	2.1

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

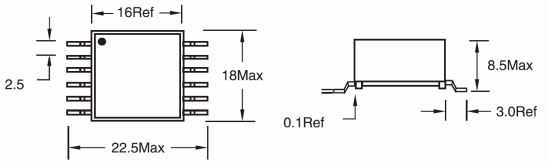
Dimensions:mm

SPT–01

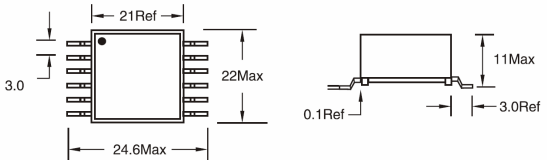




SPT–02



SPT–03



- Inductance measure at Pin 1–2,100KHz 0.1VRms.
- DCR measure at individual winding
- Leakage measure at pin 1–12 with all other windings shorted
- Insulation Resistance: 500 VDC, 1KM Ohm min.
- Turns ratio: 1:1:1:1:1:1
- Soldering temperature:260℃ for 4 ± 1 seconds
- Operating temperature:0℃ to 70℃
- Storage Temperature:–25℃ to 85℃
- Different package available per special request

Note:All specifications subject to change without notice.