

HIGH FREQUENCY 140W PLANAR TRANSFORMERS TP25F SERIES

FEATURES:

Power Rating Up to 140 Watts
 High Efficiency of Over 98%
 High Power Density of 600 Watts Per Cubic Inch
 Footprint 23.5 mm 20.10 mm
 Lower Profile of 9.12 mm
 High Isolation (operational) 1500 Vdc
 High Frequency 200 kHz-700 kHz
 Operating Temperature -40 to +125

OPTIONS:

Weight: 11.60 grams
 Tape & Reel: 200/reel
 Tube: 18/tube

COMMON APPLICATIONS:

High performance DC/DC converters.
 High efficiencies up to over 98 percent, high power density of 600 watts per cubic inch DC/DC converters.
 For forward, full-bridge, half-bridge and push-pull DC/DC converters.
 Adding a primary auxiliary winding or a small gap to be have more expanding of configurations.
 Input voltages between 18V and 75V, and output voltages from 52V down to 1.0V DC/DC converters.
 Telecommunications, industrial control systems, Automotive and heavy equipment vehicle systems

ELECTRICAL CHARACTERISTICS

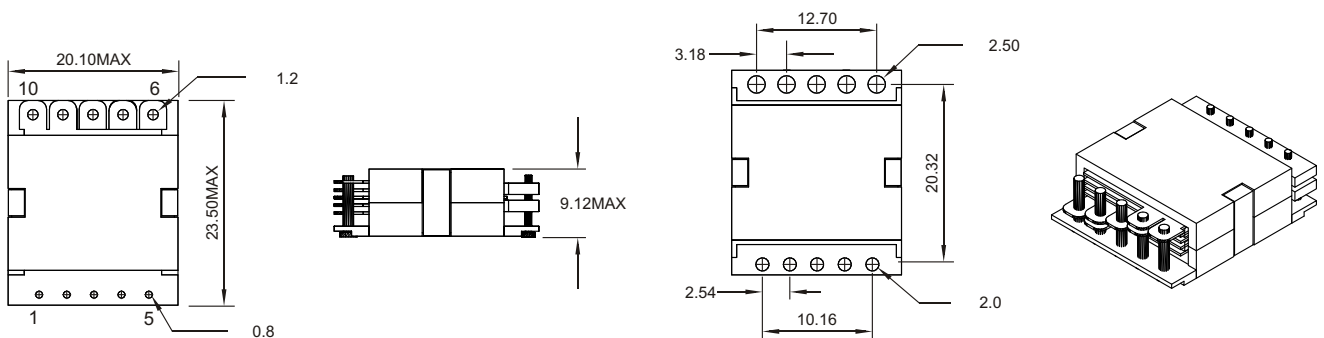
Part Number	Primary Inductance (uH Min)	Leakage Inductance (uH Max)	DC Resistance (m Max)			Secondary	Turns Ratio		Primary Second Hi-Pot	Figure	M. Height
			Primary				Primary	Secondary			
			A	B	AUX.		(A/B)				
TP25F0802	161.0	0.43	18.0	18.0	N/A	0.580.5	4T/4T	1T&1T	1500VDC	A	9.12mm
TP25F0902	204.0	0.43	18.0	20.0	N/A		4T/5T	1T&1T	1500VDC	A	9.12mm
TP25F1002	252.0	0.45	20.0	20.0	N/A		5T/5T	1T&1T	1500VDC	A	9.12mm
TP25F1102	304.0	0.55	20.0	26.0	N/A		5T/6T	1T&1T	1500VDC	A	9.12mm
TP25F1202	362.0	0.60	26.0	26.0	N/A		6T/6T	1T&1T	1500VDC	A	9.12mm
TP25F0803	161.0	0.43	18.0	18.0	N/A		1.0&1.0	4T/4T	2T&1T	1500VDC	B
TP25F0903	204.0	0.43	18.0	20.0	N/A	4T/5T		2T&1T	1500VDC	B	9.12mm
TP25F1003	252.0	0.45	20.0	20.0	N/A	5T/5T		2T&1T	1500VDC	B	9.12mm
TP25F1103	304.0	0.55	20.0	26.0	N/A	5T/6T		2T&1T	1500VDC	B	9.12mm
TP25F1203	362.0	0.60	26.0	26.0	N/A	6T/6T		2T&1T	1500VDC	B	9.12mm
TP25F0804	161.0	0.43	18.0	18.0	N/A	4.00		4T/4T	(1T:1T:1T:1T)	1500VDC	C
TP25F0904	204.0	0.43	18.0	20.0	N/A		4T/5T	1500VDC		C	9.12mm
TP25F1004	252.0	0.45	20.0	20.0	N/A		5T/5T	1500VDC		C	9.12mm
TP25F1104	304.0	0.55	20.0	26.0	N/A		5T/6T	1500VDC		C	9.12mm
TP25F1204	362.0	0.60	26.0	26.0	N/A		6T/6T	1500VDC		C	9.12mm

TECHNICAL INFORMATION

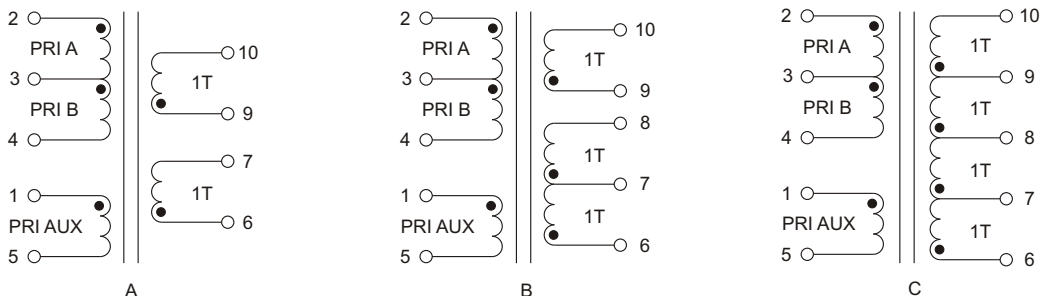
- The inductance is measured on HP4284 between pins 2 - 4 at 100 kHz, 100 mVrms, 0 Adc.
- The leakage inductance is measured between pins 2 - 4 with all other winding shorted.
- All specifications typical at TA=25

PHYSICAL CHARACTERISTICS

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SUGGESTED PAD LAY-OUT



SCHEMATIC

Note: All specifications subject to change without notice.