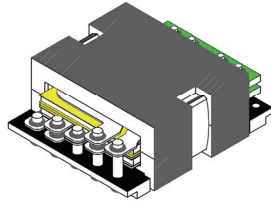


Planar Transformers

HS-TP25D SERIES

High Frequency 150 Watts



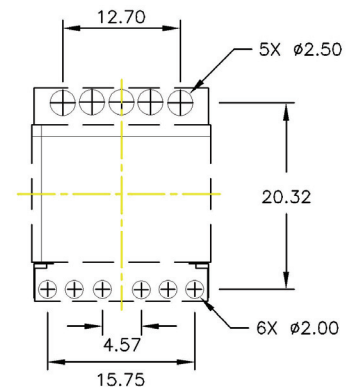
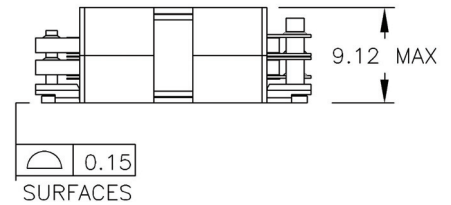
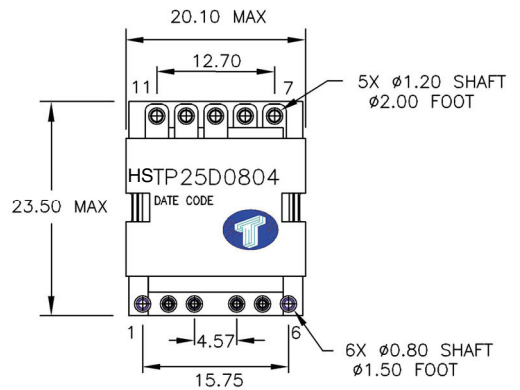
FEATURES

- Power Rating Up to 150 Watts
- High Efficiency of over 98%
- High Power Density of 600 Watts Per Cubic Inch
- Footprint 23.5 mm X 20.10 mm
- Lower Profile of 9.12 mm
- High Isolation (operational) 1500 Vdc
- High Frequency 200 kHz – 700 kHz
- Operating Temperature -40° C to +125° C

DESCRIPTION

The HS-TP25D series of planar transformers are optimised for power supplies of high performance DC/DC converters. Due to an optimised core, winding geometry and interleaving technology, they are able to offer a high efficiencies up to over 98 percent, high power density of 600 watts per cubic inch, but lower profile of 9.12 mm. The series are consisted of 15 part numbers, off-the-shelf catalog parts can be arranged to 130 different winding configurations. Adding a primary auxiliary winding or a small gap to transformers, they will be have more expanding of configurations. The series are intended for use of DC/DC converter supply with forward, full-bridge, half-bridge an and push – pull power supplies. Topologies in application with input voltages between 18 and 75 volts, and output voltages from 52 volts down to 1.0 volts.

Weight.....11.60 grams
Tape & Reel.....200/reel
Tray.....40/tray



SUGGESTED PAD LAY-OUT

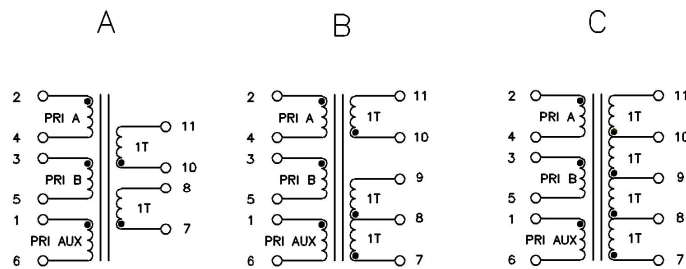
HS-TP25D SERIES

High Frequency 150 Watts
Planar Transformers



301 E. Arrow Highway, Suite 108
San Dimas, CA 91773 USA
Telephone: (909) 592-2234
Fax: (909) 592-2231
www.gei-inc.com

ELECTRICAL SPECIFICATIONS											
Part Number	Primary ¹ Inductance (uH min.)	Leakage ² Inductance (uH max.)	DC Resistance (mΩ Max)			Turns Ratio		primary Second Hi Pot	Figure	M. Height	
			Primary			Secondary	Primary				Secondary
			A	B	AUX		(A/B)				
HSTP25D0802	161.0	0.43	18.0	18.0	N/A	0.85&0.85	4T/4T	1T & 1T	1500 Vdc	A	
HSTP25D0902	204.0	0.43	18.0	20.0	N/A		4T/5T				
HSTP25D1002	252.0	0.48	20.0	20.0	N/A		5T/5T				
HSTP25D1102	304.0	0.55	20.0	25.0	N/A		5T/6T				
HSTP25D1202	362.0	0.60	25.0	25.0	N/A		6T/6T				
HSTP25D0803	161.0	0.43	18.0	18.0	N/A	1.70 & 1.70	4T/4T	2T & 1T		B	
HSTP25D0903	204.0	0.43	18.0	20.0	N/A		4T/5T				
HSTP25D1003	252.0	0.48	20.0	20.0	N/A		5T/5T				
HSTP25D1103	304.0	0.55	20.0	25.0	N/A		5T/6T				
HSTP25D1203	362.0	0.60	25.0	25.0	N/A		6T/6T				
HSTP25D0804	161.0	0.43	18.0	18.0	N/A	7.00	4T/4T	4T (1T:1T:1T:1T)	C		
HSTP25D0904	204.0	0.43	18.0	20.0	N/A		4T/5T				
HSTP25D1004	252.0	0.48	20.0	20.0	N/A		5T/5T				
HSTP25D1104	304.0	0.55	20.0	25.0	N/A		5T/6T				
HSTP25D1204	362.0	0.60	25.0	25.0	N/A		6T/6T				



SCHEMATICS

NOTES:

1. The inductance is measured with both primary windings connected in series Pin (2--5) with Pin (3--4) shorted.
2. The leakage inductance is measured in winding Pin (2 -4) with all other winding shorted.
3. All specifications typical at T_A=25° C.