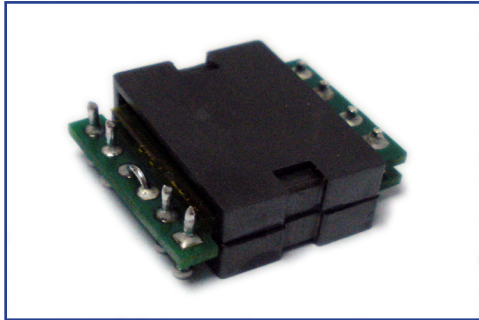


# SMT HIGH CURRENT PLANAR TRANSFORMERS



## PI25 SERIES



- High Thermal Efficiency & Energy Storage
- High Current Rating Up to 73 Amps
- Lower Profile of 7.4 mm Max.
- Wider Flexibility of Inductances
- Footprint 23.50 mm X 19.50 mm
- Operating Temperature -40°C to +130°C
- Custom Design Available

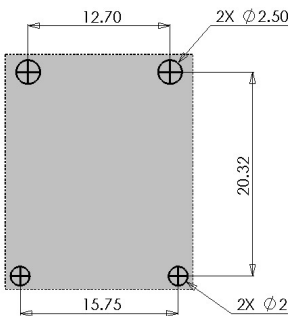
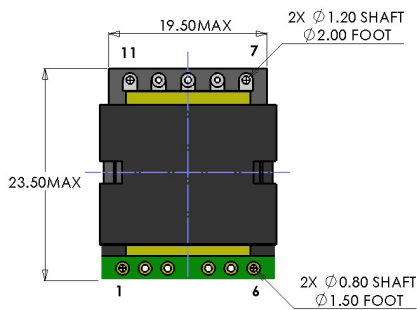
## ELECTRICAL PARAMETERS @25°C

Part Number	Inductance @ 0 A <sub>DC</sub> (uH±10%)	Inductance @ I <sub>rated</sub> (uH±15%)	I <sub>rated</sub> (A <sub>DC</sub> )	DC Resistance (mΩ MAX)		Turns Ratio		Isolation (V <sub>DC</sub> )	I <sub>saturation</sub> (A)		I <sub>heating</sub>
				Primary	Secondary	Primary	Secondary		@25°C	@100°C	
S1604	2.10	2.00	30.0	2.0	1500	4T	16T	1500	45	40	37.0

### NOTES:

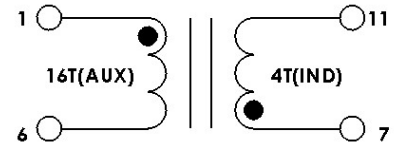
1. Inductance of TI25S1604 measured on Agilent/HP4284 between pins 7 & 11 at 100 KHz, 0.1 Vrms.
2. The I<sub>rated</sub> is either 85% of the I<sub>saturation</sub> or the I<sub>heating</sub> depending which is lower.
3. The I<sub>saturation</sub> is the current which causes the inductance to drop by 15% of its nominal value.
4. The I<sub>heating</sub> is the current which causes the temperature of the part to increase by approximately 45°C.

## DIMENSIONS (mm)



SUGGESTED PAD LAYOUT

## SCHEMATICS



Product performance is limited to specified parameters. Data is subject to change without prior notice.

Tel: 310-325-1043  
Fax: 310-325-1044

**Dimensions**  
Unless otherwise specified, all tolerances are:  
inch: .XX : ±0.015 .XXX : ±0.004  
mm: X.X : ±0.38 X,XX : ±0.10

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