

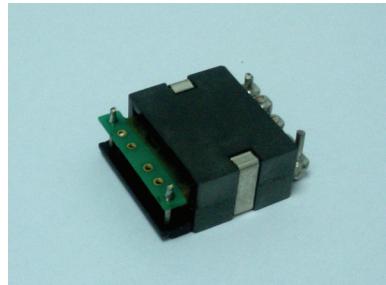


Techdak
天 钽 电子

**RoHS
COMPLIANT**

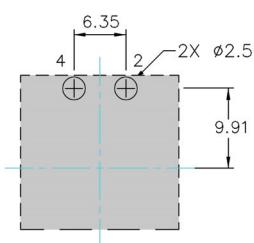
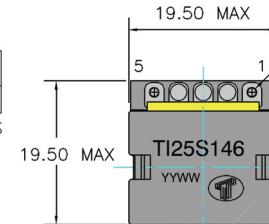
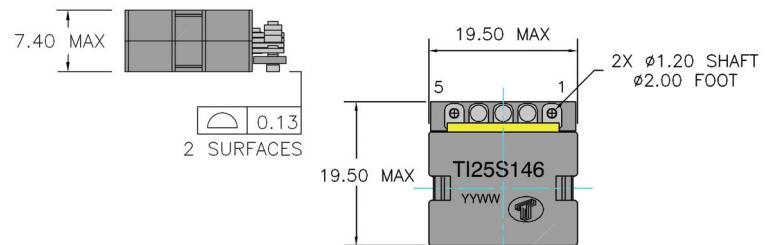
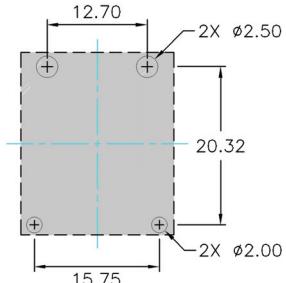
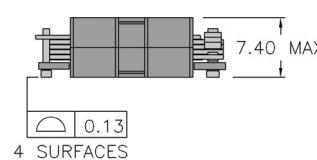
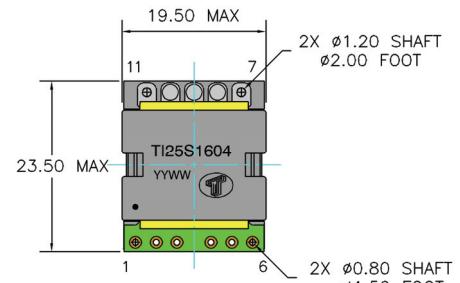
TI25 SERIES

SMT High Current
Planar Inductors

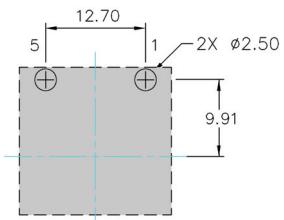


FEATURES

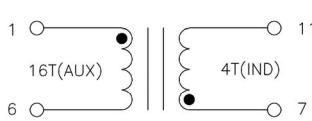
- High Thermal Efficiency & Energy Storage,
- High Current Rating Up to 73 Amps,
- Lower Profile of 7.4 mm Max.
- Wider Flexibility of Inductances
- Footprint 23.50 mm X 19.50 mm
- Operating Temperature -40° C to +130° C



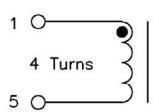
SUGGESTED PAD LAY-OUT



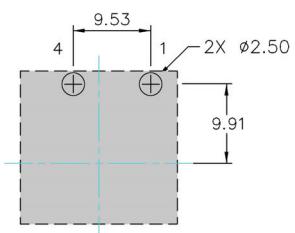
SUGGESTED PAD LAY-OUT



SCHEMATIC



SCHEMATIC



SUGGESTED PAD LAY-OUT

TI25 SERIES

SMT High Current
Planar Inductors

ELECTRICAL SPECIFICATIONS											
Part Number	Inductance ¹ @ 0 Adc (uH±10%)	Inductance ¹ @ Irated (uH±15%)	Irated ² A dc	DCR (mΩ Max)		Turns Ratio		Main Aux. Hi-Pot	Isaturation ³ (Amps)		
				Main	Aux	Main	Aux.		@25°C	@100°C	
TI25S1604	2.10	2.00	30.0	2.0	1500	4	16	1500	45	40	37.0
2//2 Turns											
TI25D221	0.46	0.45	73.0	0.40	N/A	2	N/A	N/A	95	80	73
TI25D222	0.67	0.63	55.0	0.40	N/A	2	N/A	N/A	63	53	73
TI25D223	0.90	0.85	39.0	0.40	N/A	2	N/A	N/A	46	37	73
TI25D224	1.12	1.05	30.0	0.40	N/A	2	N/A	N/A	35	30	73
TI25D225	1.35	1.25	25.0	0.40	N/A	2	N/A	N/A	29	26	73
TI25D226	1.56	1.45	21.0	0.40	N/A	2	N/A	N/A	24	22	73
2 Turns											
TI25S121	0.46	0.45	53.0	0.80	N/A	2	N/A	N/A	95	80	52
TI25S122	0.67	0.63	52.0	0.80	N/A	2	N/A	N/A	63	53	52
TI25S123	0.90	0.85	39.0	0.80	N/A	2	N/A	N/A	46	37	52
TI25S124	1.12	1.05	30.0	0.80	N/A	2	N/A	N/A	35	30	52
TI25S125	1.35	1.25	26.0	0.80	N/A	2	N/A	N/A	29	26	52
TI25S126	1.56	1.45	22.0	0.80	N/A	2	N/A	N/A	24	22	52
3 Turns											
TI25S131	1.00	0.95	42.0	1.20	N/A	3	N/A	N/A	68	54	42
TI25S132	1.50	1.45	36.0	1.20	N/A	3	N/A	N/A	43	35	42
TI25S133	2.00	1.95	25.0	1.20	N/A	3	N/A	N/A	29	25	42
TI25S134	2.50	2.45	20.0	1.20	N/A	3	N/A	N/A	23	21	42
TI25S135	3.00	2.85	15.0	1.20	N/A	3	N/A	N/A	18	16	42
TI25S136	3.50	3.45	12.0	1.20	N/A	3	N/A	N/A	15	13	42
4 Turns											
TI25S141	1.78	1.65	37.0	1.60	N/A	4	N/A	N/A	55	43	37
TI25S142	2.66	2.45	30.0	1.60	N/A	4	N/A	N/A	35	27	37
TI25S143	3.55	3.35	17.0	1.60	N/A	4	N/A	N/A	20	18	37
TI25S144	4.45	4.00	14.0	1.60	N/A	4	N/A	N/A	16	15	37
TI25S145	5.33	4.85	11.0	1.60	N/A	4	N/A	N/A	13	12	37
TI25S146	6.21	5.80	9.0	1.60	N/A	4	N/A	N/A	11	10	37

NOTES:

- Inductance of TI25S1604 measured on Agilent/HP4284 between pins 7 & 11 at 100 kHz, 0.1 Vrms.
- The Irated is either 85% of the Isaturation or the Iheating depending which is lower.
- The Isaturation is the current which causes the inductance to drop by 15% of its nominal value.
- The Iheating is the current which causes the temperature of the part to increase by approximately 45° C.