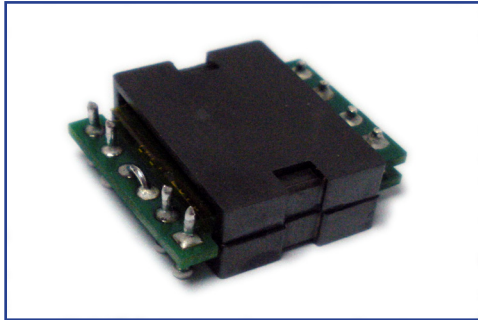


SMT HIGH CURRENT PLANAR INDUCTORS



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 19.50 mm X 19.50 mm
- Operating Temperature -40°C to +130°C
- Custom Design Available

ELECTRICAL PARAMETERS @25°C

Part Number PI25-	Inductance @ 0 A _{DC} ($\mu\text{H} \pm 10\%$)	Inductance @ I _{rated} ($\mu\text{H} \pm 15\%$)	I _{rated} (A _{DC})	DC Resistance (m Ω MAX)	Turns	I _{saturation} (A)		I _{heating}	Figure
						@25°C	@100°C		
D221	0.46	0.45	73.0	0.40	2T	95	80	73	A
D222	0.67	0.63	55.0	0.40	2T	63	53	73	A
D223	0.90	0.85	39.0	0.40	2T	46	37	73	A
D224	1.12	1.05	30.0	0.40	2T	35	30	73	A
D225	1.36	1.25	25.0	0.40	2T	29	26	73	A
D226	1.56	1.45	21.0	0.40	2T	24	22	73	A
S121	0.46	0.45	53.0	0.80	2T	95	80	52	A
S122	0.67	0.63	52.0	0.80	2T	63	53	52	A
S123	0.90	0.85	39.0	0.80	2T	46	37	52	A
S124	1.12	1.05	30.0	0.80	2T	35	30	52	A
S125	1.36	1.25	26.0	0.80	2T	29	26	52	A
S126	1.56	1.45	22.0	0.80	2T	24	22	52	A
S131	1.00	0.95	42.0	1.20	3T	68	54	42	B
S132	1.50	1.45	36.0	1.20	3T	43	35	42	B
S133	2.00	1.95	25.0	1.20	3T	29	25	42	B
S134	2.50	2.45	20.0	1.20	3T	23	21	42	B
S135	3.00	2.85	15.0	1.20	3T	18	16	42	B
S136	3.50	3.45	12.0	1.20	3T	15	13	42	B
S141	1.78	1.65	37.0	1.60	4T	55	43	37	C
S142	2.66	2.45	30.0	1.60	4T	35	27	37	C
S143	3.55	3.35	17.0	1.60	4T	20	18	37	C
S144	4.45	4.00	14.0	1.60	4T	16	15	37	C
S145	5.33	4.85	11.0	1.60	4T	13	12	37	C
S146	6.21	5.80	9.0	1.60	4T	11	10	37	C

NOTES:

1. The I_{rated} is either 85% of the I_{saturation} or the I_{heating} depending which is lower.
2. The I_{saturation} is the current which causes the inductance to drop by 15% of its nominal value.
3. The I_{heating} is the current which causes the temperature of the part to increase by approximately 45°C.

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

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

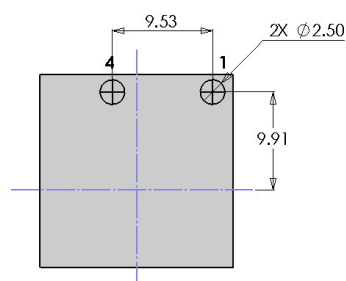
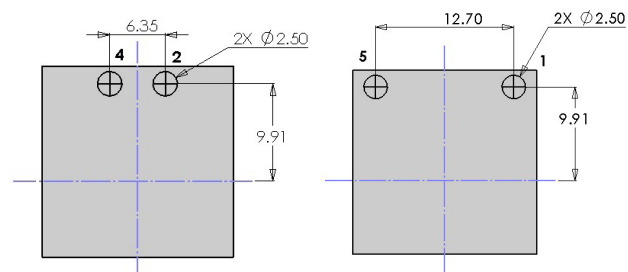
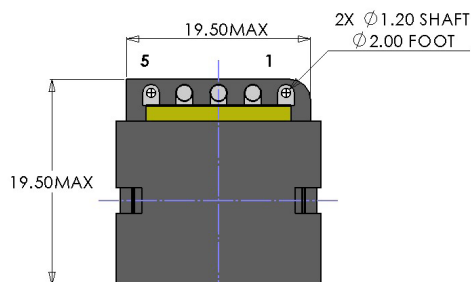
www.mpsind.com
sales@mpsind.com

SMT HIGH CURRENT PLANAR INDUCTORS



PI25 SERIES

DIMENSIONS (mm)



SUGGESTED PAD LAYOUT

SCHEMATICS

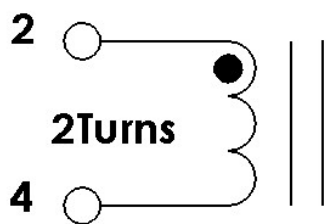


Figure A

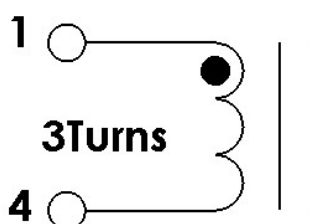


Figure B

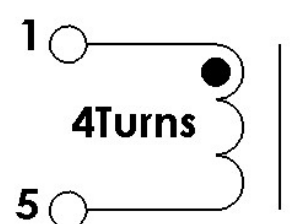


Figure C

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

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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