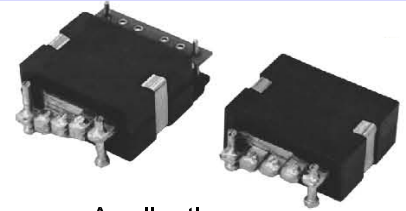


## SMT HIGH CURRENT PLANAR INDUCTORS PI20 SERIES



### Features:

- High thermal efficiency & energy storage
- High current rating up to 73 Amps
- Low profile: 7.4mm Max
- Wide inductance range
- Footprint: 23.50mm x 19.50mm
- Operating temperature: -40°C to +130°C

### Options:

- Weight: 11.8 grams
- Tape & Reel: 250/reel
- Tube: 18/tube

### Common Applications:

- High density and high energy efficiency DC/DC converters
- High current DC/DC power supplies
- Telecommunication, industrial control systems, automotive, and heavy equipment vehicle systems

### Electrical Characteristics:

Part Number	Inductance @ 0Adc (μH ±10%)	Inductance @ IDC rated (μH ±15%)	IDC rated Adc	RDC (m Ω Max)		Turns Ratio		Main Aux. Hi-pot	IDC saturation (Amps)		IDC heating (Amps)
				Main	Aux.	Main	Aux.		@ 25°C	@ 100°C	
PI 20S1604	2.10	2.00	30.0	2.00	1500	4	16	1500	45	40	37.0
2/2 Turns											
PI 20D221	0.46	0.45	73.0	0.40	N/A	2	N/A	N/A	95	80	73
PI 20D222	0.67	0.63	55.0	0.40	N/A	2	N/A	N/A	63	53	73
PI 20D223	0.90	0.85	39.0	0.40	N/A	2	N/A	N/A	46	37	73
PI 20D224	1.12	1.05	30.0	0.40	N/A	2	N/A	N/A	35	30	73
PI 20D225	1.35	1.25	25.0	0.40	N/A	2	N/A	N/A	29	26	73
PI 20D226	1.56	1.45	21.0	0.40	N/A	2	N/A	N/A	24	22	73
2 Turns											
PI 20S121	0.46	0.45	53.0	0.8	N/A	2	N/A	N/A	95	80	52
PI 20S122	0.67	0.63	52.0	0.8	N/A	2	N/A	N/A	63	53	52
PI 20S123	0.90	0.85	39.0	0.8	N/A	2	N/A	N/A	46	37	52
PI 20S124	1.12	1.05	30.0	0.8	N/A	2	N/A	N/A	35	30	52
PI 20S125	1.35	1.25	26.0	0.8	N/A	2	N/A	N/A	29	26	52
PI 20S126	1.56	1.45	22.0	0.8	N/A	2	N/A	N/A	24	22	52
3 Turns											
PI 20S131	1.00	0.95	42.0	1.20	N/A	3	N/A	N/A	68	54	42
PI 20S132	1.50	1.45	36.0	1.20	N/A	3	N/A	N/A	43	35	42
PI 20S133	2.00	1.95	25.0	1.20	N/A	3	N/A	N/A	29	25	42
PI 20S134	2.50	2.45	20.0	1.20	N/A	3	N/A	N/A	23	21	42
PI 20S135	3.00	2.85	15.0	1.20	N/A	3	N/A	N/A	18	16	42
PI 20S136	3.50	3.45	12.0	1.20	N/A	3	N/A	N/A	15	13	42
4 Turns											
PI 20S141	1.78	1.65	37.0	1.60	N/A	4	N/A	N/A	55	43	37
PI 20S142	2.66	2.45	30.0	1.60	N/A	4	N/A	N/A	35	27	37
PI 20S143	3.55	3.35	17.0	1.60	N/A	4	N/A	N/A	20	18	37
PI 20S144	4.45	4.00	14.0	1.60	N/A	4	N/A	N/A	16	15	37
PI 20S145	5.33	4.85	11.0	1.60	N/A	4	N/A	N/A	13	12	37
PI 20S146	6.21	5.80	9.0	1.60	N/A	4	N/A	N/A	11	10	37

Notes: Specification subject to change without notice.

### Technical Information:

1. Inductance is measured on Agilent/HP4284 between Pins 7 & 11 at 100kHz or 0.1 Vrms
2. Rated IDC is either 85% of the IDC saturation or the IDC heating depending on which is lower
3. The IDC Saturation is the current which causes the inductance to drop by 15% of its nominal value.
4. The IDC Heating is the current which causes the temperature of the part to increase by approximately 45°C

### Mechanical Characteristics (mm):

