

SMD POWER INDUCTORS

Series PI - S *Shielded*

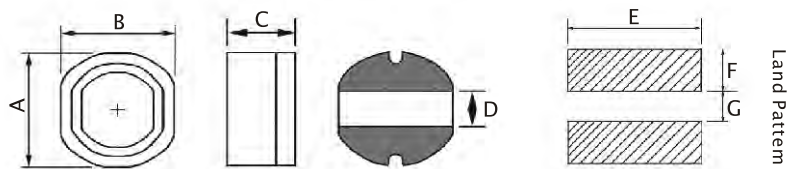


PRODUCT IDENTIFICATION

PI 06 S 04 2 M 10U
a b c d e f g

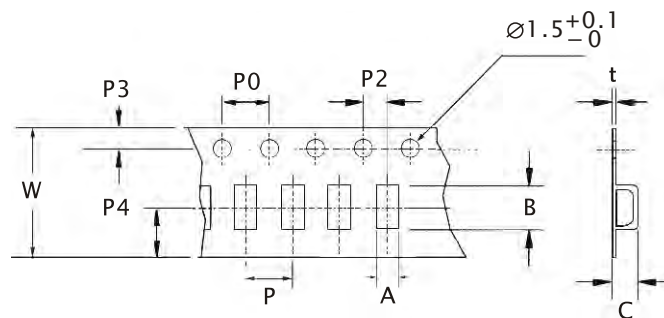
- a : Type of products - SMD Power Inductors PI-S series.
- b : Dimension(mm) - 06 : 6.2X5.6, 07 : 7.8X7.0, 09 : 10.0X9.0
- c : Materials - S = PI With Shielded
- d : Thickness(mm) - 04 = 3.2, 05 = 4.5, 06 = 5.5
- e : Packing - PCS / REEL - R = 750, 1 = 1000, J = 1500
- f : Tolerance - K : $\pm 10\%$, M : $\pm 20\%$
- g : Inductance - 100N = 0.1uH, 10U = 10.0 uH, 1M2 = 1200uH

SHAPES & DIMENSIONS



Type	A (max.)	B (max.)	C (max.)	D (typ.)	E	F	G
PI06S04	6.2 \pm 0.3	5.6 \pm 0.3	3.2 \pm 0.3	2.00	6.20	2.55	1.70
PI07S05	7.8 \pm 0.3	7.0 \pm 0.3	4.5 \pm 0.5	2.10	7.60	3.35	1.70
PI09S06	10.0 \pm 0.4	9.0 \pm 0.3	5.5 \pm 0.5	2.10	9.60	4.50	1.70

TAPE DIMENSIONS



Type	A	B	C	W	P	P0	P2	P3	P4	t	Unit : mm	
											Q'ty/Reel	
											7" Reel	13" Reel
PI06S04	5.7 \pm 0.1	6.3 \pm 0.1	3.6 \pm 0.05	12.3 \pm 0.2	8 \pm 0.1	4 \pm 0.1	2 \pm 0.1	1.75 \pm 0.1	x	0.35 \pm 0.02	500	1500
PI07S05	7.2 \pm 0.1	8 \pm 0.1	5.6 \pm 0.05	16.3 \pm 0.2	12 \pm 0.1	4 \pm 0.1	2 \pm 0.1	1.75 \pm 0.1	x	0.35 \pm 0.02	x	1000
PI09S06	9.2 \pm 0.1	10.2 \pm 0.1	5.9 \pm 0.05	24.3 \pm 0.2	12 \pm 0.1	4 \pm 0.1	2 \pm 0.1	1.75 \pm 0.1	x	0.4 \pm 0.02	x	750

Rise Temperature : 40°C max.

Rated Current : $\Delta L/L = 10\%$ max. ΔL : Base on rise Temperature L : Base on room Temperature

Operating Temperature : -40°C to +105°C

Resistance to solder heat : 250°C/10Sec.

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ELECTRICAL CHARACTERISTICS

TEST FREQUENCY 0.8uH ~ 8.2uH @ 100KHz / 0.25V

10uH ~ 10000uH @ 1KHz / 0.25V

Part Number	Inductance (μH)	DCR (Ω) max.	IDC (A) max.	Part Number	Inductance (μH)	DCR (Ω) max.	IDC (A) max.
PI06S04J□1U	1	0.02	2.500	PI07S051□150U	150	0.940	0.440
PI06S04J□2U2	2.2	0.04	2.250	PI07S051□180U	180	1.000	0.400
PI06S04J□3U3	3.3	0.05	2.000	PI07S051□220U	220	1.180	0.360
PI06S04J□4U7	4.7	0.05	1.750	PI07S051□270U	270	1.300	0.330
PI06S04J□5U6	5.6	0.07	1.500	PI07S051□330U	330	1.350	0.260
PI06S04J□6U8	6.8	0.07	1.250	PI07S051□390U	390	1.440	0.240
PI06S04J□10U	10	0.140	1.000	PI07S051□470U	470	1.650	0.220
PI06S04J□12U	12	0.160	0.940	PI07S051□560U	560	12.700	0.085
PI06S04J□15U	15	0.180	0.860	PI07S051□680U	680	2.600	0.180
PI06S04J□18U	18	0.250	0.780	PI07S051□820U	820	3.000	0.160
PI06S04J□22U	22	0.320	0.760	PI07S051□1M	1000	3.520	0.150
PI06S04J□27U	27	0.360	0.640	PI07S051□1M2	1200	4.630	0.130
PI06S04J□33U	33	0.410	0.610	PI07S051□1M5	1500	5.770	0.120
PI06S04J□39U	39	0.470	0.530	PI07S051□1M8	1800	6.890	0.100
PI06S04J□47U	47	0.510	0.500	PI07S051□2M2	2200	7.980	0.098
PI06S04J□56U	56	0.720	0.460	PI07S051□2M7	2700	10.500	0.095
PI06S04J□68U	68	0.820	0.420	PI07S051□3M3	3300	12.700	0.085
PI06S04J□560U	560	3.640	0.140	PI07S051□3M9	3900	16.500	0.075
PI07S051□10U	10	0.070	1.650	PI07S051□4M7	4700	19.200	0.072
PI07S051□12U	12	0.070	1.570	PI07S051□5M6	5600	25.600	0.069
PI07S051□15U	15	0.080	1.390	PI07S051□6M8	6800	32.800	0.063
PI07S051□18U	18	0.100	1.200	PI07S051□8M2	8200	38.200	0.056
PI07S051□22U	22	0.130	1.120	PI07S051□10M	10000	50.300	0.050
PI07S051□27U	27	0.160	1.060	PI07S051□12M	12000	61.700	0.460
PI07S051□33U	33	0.180	0.970	PI07S051□15M	15000	96.700	0.041
PI07S051□39U	39	0.180	0.910	PI07S051□18M	18000	100.020	0.038
PI07S051□47U	47	0.270	0.800	PI09S06R□10U	10	0.060	2.060
PI07S051□56U	56	0.290	0.760	PI09S06R□12U	12	0.070	1.940
PI07S051□68U	68	0.330	0.680	PI09S06R□15U	15	0.070	1.720
PI07S051□70U	70	0.360	0.650	PI09S06R□18U	18	0.080	1.580
PI07S051□82U	82	0.430	0.620	PI09S06R□22U	22	0.080	1.420
PI07S051□100U	100	0.490	0.550	PI09S06R□27U	27	0.100	1.320
PI07S051□120U	120	0.680	0.490	PI09S06R□33U	33	0.110	1.160

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Part Number	Inductance (μ H)	DCR (Ω) max.	IDC (A) max.
PI09S06R□39U	39	0.120	1.100
PI09S06R□47U	47	0.140	1.000
PI09S06R□56U	56	0.190	0.930
PI09S06R□68U	68	0.210	0.850
PI09S06R□82U	82	0.280	0.790
PI09S06R□100U	100	0.340	0.720
PI09S06R□120U	120	0.370	0.630
PI09S06R□150U	150	0.510	0.550
PI09S06R□180U	180	0.570	0.500
PI09S06R□220U	220	0.780	0.470
PI09S06R□270U	270	0.870	0.410
PI09S06R□330U	330	1.200	0.370
PI09S06R□390U	390	1.340	0.350
PI09S06R□470U	470	1.500	0.330