

SMD POWER INDUCTORS

Series PI - S Shielded

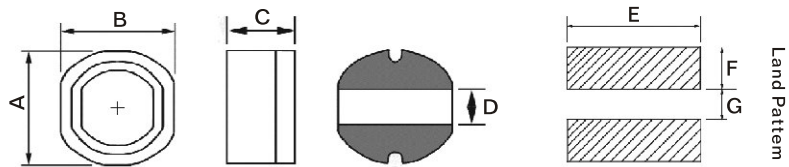


PRODUCT IDENTIFICATION

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

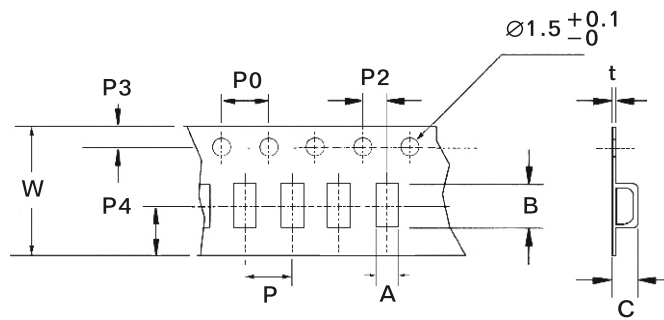
- a : Type of products - SMD Power Inductors PI -S series.
- b : Dimension(mm) - 06 : 6.2X5.6 07 : 7.8X7.0 09 : 10.0X9.0
- c : Materials - S = PI With Shielded
- d : Thickness(mm) - 04 = 3.2, 05 = 4.5, 06 = 5.5
- e : Packing - PCS / REEL - R = 750, 1 = 1000, J = 1500
- f : Tolerance - K : ±10% M : ±20%
- 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±0.3	5.6±0.3	3.2±0.3	2.00	6.20	2.55	1.70
PI07S05	7.8±0.3	7.0±0.3	4.5±0.5	2.10	7.60	3.35	1.70
PI09S06	10.0±0.4	9.0±0.3	5.5±0.5	2.10	9.60	4.50	1.70

TAPE DIMENSIONS



Unit : mm

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