

SMD POWER INDUCTORS

Series PB *Shielded*

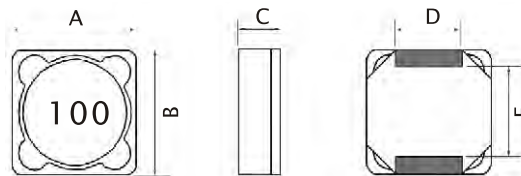


PRODUCT IDENTIFICATION

PB **12** **X** **05** **1** **M** **10U**
a **b** **c** **d** **e** **f** **g**

- a : Type of products - SMD Power Inductors PB series.
- b : Dimension(mm) - 12 : 12X12
- c : Materials - X = No Define
- d : Thickness(mm) - 05 = 4.5, 06 = 6.0, 08 = 8.0
- e : Packing - PCS / REEL - I = 500
- f : Tolerance - K : $\pm 10\%$ M : $\pm 20\%$
- g : Inductance - 100N = 0.1uH, 10U = 10.0 uH, 1M2 = 1200uH

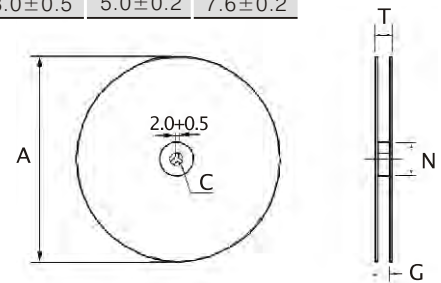
SHAPES & DIMENSIONS



Type	A	B	C	D	E
PB12X05	12.0 \pm 0.5	12.0 \pm 0.5	4.5 \pm 0.5	5.0 \pm 0.2	7.6 \pm 0.2
PB12X06	12.0 \pm 0.5	12.0 \pm 0.5	6.0 \pm 0.5	5.0 \pm 0.2	7.6 \pm 0.2
PB12X08	12.0 \pm 0.5	12.0 \pm 0.5	8.0 \pm 0.5	5.0 \pm 0.2	7.6 \pm 0.2

REEL DIMENSIONS

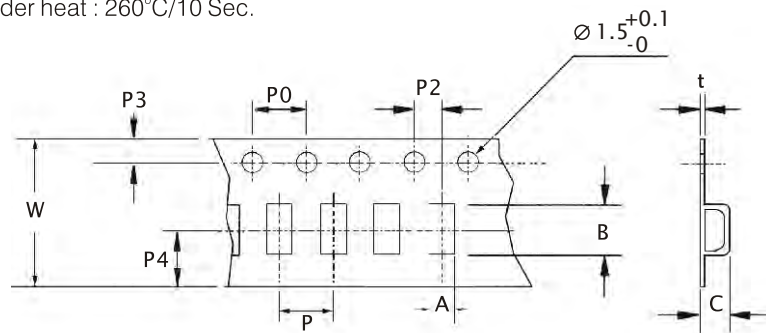
Type	A	C	G	N	T
PB12X05	330	21	24.4	100	30.4
PB12X06	330	21	24.4	100	30.4
PB12X08	330	21	24.4	100	30.4



GENERAL SPECIFICATION

- 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 +85°C
- Resistance to solder heat : 260°C/10 Sec.

TAPE DIMENSIONS



Type	A	B	C	W	P	P0	P2	P3	P4	t	Q'ty/Reel	
											7"reel	13"Reel
PB12X05	12.55 \pm 0.1	12.55 \pm 0.1	5.05 \pm 0.05	24 \pm 0.2	16.0 \pm 0.1	4.0 \pm 0.1	x	1.75 \pm 0.1	x	0.35 \pm 0.02	x	500
PB12X06	12.55 \pm 0.1	12.55 \pm 0.1	6.10 \pm 0.05	24 \pm 0.2	16.0 \pm 0.1	4.0 \pm 0.1	x	1.75 \pm 0.1	x	0.35 \pm 0.02	x	500
PB12X08	12.55 \pm 0.1	12.55 \pm 0.1	6.10 \pm 0.05	24 \pm 0.2	16.0 \pm 0.1	4.0 \pm 0.1	x	1.75 \pm 0.1	x	0.35 \pm 0.02	x	500

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ELECTRICAL CHARACTERISTICS

Part Number	Inductance (μ H)	Test Frequency	DC Resistance (Ω) max.	Rated Current (A) min.
PB12X05I□3U9	3.9	100KHz	0.015	6.50
PB12X05I□4U7	4.7	100KHz	0.018	5.70
PB12X05I□6U8	6.8	100KHz	0.023	4.90
PB12X05I□8U2	8.2	100KHz	0.026	4.60
PB12X05I□10U	10	100KHz	0.028	4.50
PB12X05I□12U	12	100KHz	0.038	4.00
PB12X05I□15U	15	100KHz	0.050	3.20
PB12X05I□18U	18	100KHz	0.057	3.10
PB12X05I□22U	22	100KHz	0.066	2.90
PB12X05I□27U	27	100KHz	0.080	2.80
PB12X05I□33U	33	100KHz	0.097	2.70
PB12X05I□39U	39	100KHz	0.132	2.10
PB12X05I□47U	47	100KHz	0.160	1.90
PB12X05I□56U	56	100KHz	0.190	1.80
PB12X05I□68U	68	100KHz	0.220	1.50
PB12X05I□82U	82	100KHz	0.260	1.30
PB12X05I□100U	100	100KHz	0.308	1.20
PB12X05I□120U	120	100KHz	0.380	1.10
PB12X05I□150U	150	100KHz	0.530	0.95
PB12X05I□180U	180	100KHz	0.620	0.85
PB12X05I□220U	220	100KHz	0.700	0.80
PB12X05I□270U	270	100KHz	0.870	0.60
PB12X05I□330U	330	100KHz	0.990	0.50
PB12X06I□10U	10	1KHz	0.025	4.00
PB12X06I□12U	12	1KHz	0.027	3.50
PB12X06I□15U	15	1KHz	0.030	3.30
PB12X06I□18U	18	1KHz	0.034	3.00
PB12X06I□22U	22	1KHz	0.036	2.80
PB12X06I□27U	27	1KHz	0.051	2.30
PB12X06I□33U	33	1KHz	0.057	2.10
PB12X06I□39U	39	1KHz	0.068	2.00
PB12X06I□47U	47	1KHz	0.075	1.80
PB12X06I□56U	56	1KHz	0.110	1.70
PB12X06I□68U	68	1KHz	0.120	1.50
PB12X06I□82U	82	1KHz	0.140	1.40
PB12X06I□100U	100	1KHz	0.160	1.30
PB12X06I□120U	120	1KHz	0.170	1.10
PB12X06I□150U	150	1KHz	0.230	1.00
PB12X06I□180U	180	1KHz	0.290	0.90
PB12X06I□220U	220	1KHz	0.400	0.80
PB12X06I□270U	270	1KHz	0.460	0.75
PB12X06I□330U	330	1KHz	0.510	0.68
PB12X06I□390U	390	1KHz	0.690	0.65
PB12X06I□470U	470	1KHz	0.770	0.58
PB12X06I□560U	560	1KHz	0.860	0.54
PB12X06I□680U	680	1KHz	1.200	0.48
PB12X06I□820U	820	1KHz	1.340	0.43
PB12X06I□1M	1000	1KHz	1.530	0.40

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Part Number	Inductance (μ H)	Test Frequency	DC Resistance (Ω) max.	Rated Current (A) min.
PB12X08I□1U2	1.2	100KHz	0.0070	9.80
PB12X08I□2U4	2.4	100KHz	0.0115	8.00
PB12X08I□3U5	3.5	100KHz	0.0135	7.50
PB12X08I□4U7	4.7	100KHz	0.0158	6.80
PB12X08I□6U1	6.1	100KHz	0.0176	6.60
PB12X08I□7U6	7.6	100KHz	0.0200	5.90
PB12X08I□10U	10	1KHz	0.0216	5.40
PB12X08I□12U	12	1KHz	0.0243	4.90
PB12X08I□15U	15	1KHz	0.0270	4.50
PB12X08I□18U	18	1KHz	0.0392	3.90
PB12X08I□22U	22	1KHz	0.0432	3.60
PB12X08I□27U	27	1KHz	0.0459	3.40
PB12X08I□33U	33	1KHz	0.0684	3.00
PB12X08I□39U	39	1KHz	0.0792	2.75
PB12X08I□47U	47	1KHz	0.1000	2.50
PB12X08I□56U	56	1KHz	0.1100	2.35
PB12X08I□68U	68	1KHz	0.1400	2.10
PB12X08I□82U	82	1KHz	0.1600	1.95
PB12X08I□100U	100	1KHz	0.2200	1.70
PB12X08I□120U	120	1KHz	0.2500	1.60
PB12X08I□150U	150	1KHz	0.2800	1.42
PB12X08I□180U	180	1KHz	0.3500	1.30
PB12X08I□220U	220	1KHz	0.3900	1.16
PB12X08I□270U	270	1KHz	0.5600	1.06
PB12X08I□330U	330	1KHz	0.6400	0.95
PB12X08I□390U	390	1KHz	0.7000	0.88
PB12X08I□470U	470	1KHz	0.9800	0.79
PB12X08I□560U	560	1KHz	1.0700	0.73
PB12X08I□680U	680	1KHz	1.4600	0.67
PB12X08I□820U	820	1KHz	1.6400	0.60
PB12X08I□1M	1000	1KHz	1.8200	0.55