

PSB Series



PSB series is designed for low profile type with low Rdc and large current. Its magnetic shielded type is suitable for high-density mounting and flat bottom surface allows for reliable mounting onto the board. Soldering conditions can be easily confirmed when mounting onto the board. This series also Provides customers with embossed carrier type packaging for automatic mounting machine.

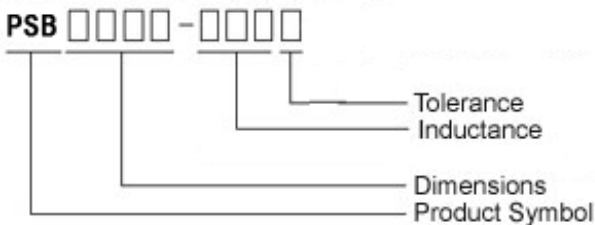
Features

- RoHS compliant
- Low resistance and high rated currents

Applications

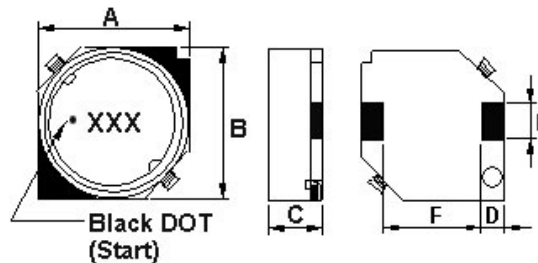
- Portable telephones, computers, hard disk drives and other electronic equipment.

Products Identification



Shapes and Dimensions

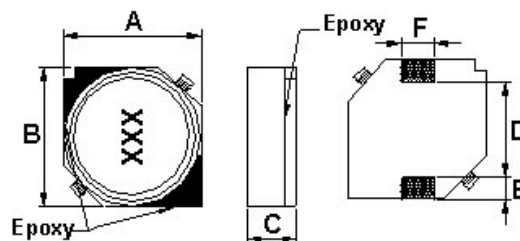
PSB 0628



Dimension in mm

TYPE	A	B	C	D	E	F
PSB 0628	6 ± 0.2	6 ± 0.2	2.8 ± 0.2	1.5 TYP	2 ± 0.1	3.0 TYP

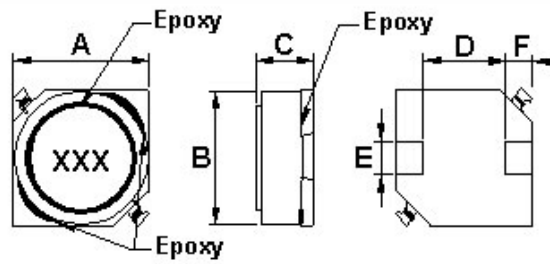
PSB0728/ 0732/ 0745/ 0730



Dimension in mm

TYPE	A	B	C	D	E	F
PSB 0728	7 ± 0.2	7 ± 0.2	2.8 ± 0.2	4.9 TYP	0.9TYP	2.0 TYP
PSB 0730	7 ± 0.2	7 ± 0.2	3.0 ± 0.2	4.9 TYP	0.9TYP	2.0 TYP
PSB 0732	7 ± 0.2	7 ± 0.2	3.2 ± 0.2	4.9 TYP	0.9TYP	2.0 TYP
PSB 0745	7 ± 0.2	7 ± 0.2	4.5 ± 0.3	4.9 TYP	0.9TYP	2.0 TYP

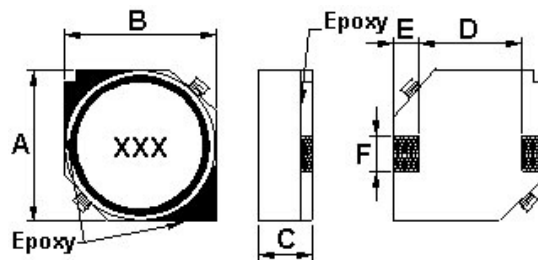
PSB 1045/ 1055



Dimension in mm

TYPE	A	B	C	D	E	F
PSB 1045	10.1 ± 0.3	10.1 ± 0.3	4.5 ± 0.3	6.0 TYP	3.0 TYP	2 TYP
PSB 1055	10.1 ± 0.3	10.1 ± 0.3	5.5 ± 0.3	6.0 TYP	3.0 TYP	2 TYP

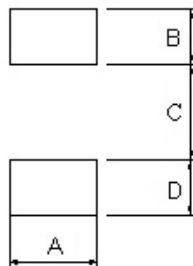
PSB 0755/ 1255/ 1265/ 1275



Dimension in mm

TYPE	A	B	C	D	E	F
PSB 0755	7.0 ± 0.2	7.0 ± 0.2	5.5 ± 0.3	4.9 TYP	0.9 TYP	2.0 TYP
PSB 1255	12.5 ± 0.3	12.5 ± 0.3	5.5 ± 0.3	8.6 TYP	2.0 TYP	3.0 TYP
PSB 1265	12.5 ± 0.3	12.5 ± 0.3	6.5 ± 0.35	8.6 TYP	2.0 TYP	3.0 TYP
PSB 1275	12.5 ± 0.3	12.5 ± 0.3	7.5 ± 0.35	8.6 TYP	2.0 TYP	3.0 TYP

Recommended Pattern



Dimension in mm

TYPE	A	B	C	D
PSB 0628	2.2	1.5	4	1.5
PSB0728	2.2	1.5	4.9	1.5
PSB0730	2.2	1.5	4.9	1.5
PSB0732	2.2	1.5	4.9	1.5
PSB0745	2.2	1.5	4.9	1.5
PSB0755	2.2	1.5	4.9	1.5
PSB 1045	3.2	2.5	5.6	2.5
PSB 1045	3.2	2.5	5.6	2.5
PSB1105	3.2	2.5	5.6	2.5
PSB 1255	3.2	2.5	8.6	2.5
PSB1265	3.2	2.5	8.6	2.5
PSB 1275	3.2	2.5	8.6	2.5

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency (KHz)	DC Resistance (Ω \pm 20%)	Isat (A)	Itemp (A) Max
PSB0628-4R7M	4.7	20	1	0.0284	1.6	2.5
PSB0628-6R8M	6.8	20	1	0.0354	1.5	2.2
PSB0628-100M	10	20	1	0.0532	1.3	1.8
PSB0628-150M	15	20	1	0.0745	1.0	1.4
PSB0628-220M	22	20	1	0.104	0.77	1.3
PSB0628-330M	33	20	1	0.148	0.69	1.1
PSB0628-470M	47	20	1	0.21	0.59	0.92
PSB0628-680M	68	20	1	0.29	0.50	0.78
PSB0628-101M	100	20	1	0.43	0.42	0.64

- Tolerance: M = \pm 20%
- Isat: Value obtained when DC current flows and the initial value of inductance has fallen by 30%
- Itemp current: Value obtained when current flows and the temperature has risen to 25°C
- Test equipment Inductance: HP4284A LF impedance analyzer or equivalent (Test frequency:1KHz/0.5V)
- RDC: CH502BC

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency (KHz)	DC Resistance (Ω \pm 20%)	Isat (A)
PSB0728-3R3M	3.3	20	1	0.037	1.6
PSB0728-4R7M	4.7	20	1	0.045	1.5
PSB0728-6R8M	6.8	20	1	0.059	1.3
PSB0728-100M	10	20	1	0.083	1.1
PSB0728-150M	15	20	1	0.13	0.88
PSB0728-220M	22	20	1	0.18	0.75
PSB0728-330M	33	20	1	0.24	0.65
PSB0728-470M	47	20	1	0.34	0.54

- Tolerance: M = \pm 20%
- Isat: Value obtained when DC current flows and the initial value of inductance has fallen by 10%
- Test equipment Inductance: HP4284A LF impedance analyzer or equivalent (Test frequency:1KHz/0.5V)
- RDC: CH502BC

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency (KHz)	DC Resistance (Ω \pm 20%)	Isat (A)
PSB0730-3R3M	3.3	20	1	0.023	1.8
PSB0730-4R7M	4.7	20	1	0.036	1.6
PSB0730-6R8M	6.8	20	1	0.041	1.5
PSB0730-100M	10	20	1	0.060	1.3
PSB0730-150M	15	20	1	0.084	1
PSB0730 -220M	22	20	1	0.15	0.86
PSB0730 -330M	33	20	1	0.16	0.65
PSB0730 -470M	47	20	1	0.24	0.57
PSB0730 -680M	68	20	1	0.31	0.49
PSB0730 -101M	100	20	1	0.45	0.35

- Tolerance: M = \pm 20%
- Isat: Value obtained when DC current flows and the initial value of inductance has fallen by 10%
- Test equipment Inductance: HP4284A LF impedance analyzer or equivalent (Test frequency:1KHz/0.5V)
- RDC: CH502BC

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency (KHz)	DC Resistance (Ω \pm 20%)	Isat (A)
PSB0732-2R2M	2.2	20	1	0.018	2.1
PSB0732-3R3M	3.3	20	1	0.023	1.9
PSB0732-4R7M	4.7	20	1	0.036	1.7
PSB0732-6R8M	6.8	20	1	0.041	1.6
PSB0732-100M	10	20	1	0.053	1.4
PSB0732-150M	15	20	1	0.075	1.1
PSB0732 -220M	22	20	1	0.11	0.96
PSB0732 -330M	33	20	1	0.16	0.75
PSB0732 -470M	47	20	1	0.24	0.67
PSB0732 -680M	68	20	1	0.31	0.59
PSB0732 -101M	100	20	1	0.45	0.45
PSB0732 -151M	150	20	1	0.65	0.37
PSB0732 -221M	220	20	1	1.05	0.29
PSB0732 -331M	330	20	1	1.67	0.22
PSB0732 -471M	470	20	1	2.05	0.2
PSB0732 -681M	680	20	1	3.15	0.16
PSB0732 -102M	1000	20	1	4.78	0.13

- Tolerance: M = \pm 20%
- Isat: Value obtained when DC current flows and the initial value of inductance has fallen by 10%
- Test equipment Inductance: HP4284A LF impedance analyzer or equivalent (Test frequency: 1KHz/0.5V)
- RDC: CH502BC

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency (KHz)	DC Resistance (Ω \pm 20%)	Isat (A)	Itemp (A) Max
PSB0745-3R3M	3.3	20	1	0.02	2.5	2.3
PSB0745-4R7M	4.7	20	1	0.03	2	2.1
PSB0745-6R8M	6.8	20	1	0.039	1.7	1.74
PSB0745-100M	10	20	1	0.036	1.3	1.78
PSB0745-150M	15	20	1	0.052	1.1	1.53
PSB0745-220M	22	20	1	0.061	0.9	1.34
PSB0745-330M	33	20	1	0.096	0.82	1.09
PSB0745-470M	47	20	1	0.125	0.75	0.92
PSB0745-680M	68	20	1	0.175	0.6	0.77
PSB0745-101M	100	20	1	0.25	0.5	0.65
PSB0745-151M	150	20	1	0.34	0.4	0.55
PSB0745-221M	220	20	1	0.52	0.33	0.45
PSB0745-331M	330	20	1	0.74	0.25	0.37
PSB0745-471M	470	20	1	1.05	0.22	0.31
PSB0745-681M	680	20	1	1.48	0.2	0.27
PSB0745-102M	1000	20	1	2.28	0.14	0.25

- Tolerance: M = \pm 20%
- Isat: Value obtained when DC current flows and the initial value of inductance has fallen by 10%
- Itemp current : Value obtained when current flows and the temperature has risen to 20°C
- Test equipment Inductance: HP4284A LF impedance analyzer or equivalent (Test frequency: 1KHz/0.5V)
- RDC: CH502BC

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency (KHz)	DC Resistance (Ω)	Isat (A)	Itemp (A) Max
PSB0755-1R5T	1.5	30	100	0.0174 \pm 30%	6.2	4.0
PSB0755-2R2T	2.2	30	100	0.0217 \pm 30%	5.3	3.5
PSB0755-3R3T	3.3	30	100	0.0240 \pm 30%	4.3	3.3
PSB0755-4R7T	4.7	30	100	0.0280 \pm 30%	3.6	3.1
PSB0755-6R8T	6.8	30	100	0.0340 \pm 30%	3.0	2.8
PSB0755-100M	10	20	100	0.0391 \pm 20%	2.6	2.5
PSB0755-150M	15	20	100	0.0508 \pm 20%	2.1	2.2
PSB0755-220M	22	20	100	0.0643 \pm 20%	1.7	2.0
PSB0755-470M	47	20	100	0.1550 \pm 20%	0.8	1.0

- Tolerance: T = \pm 30% , M = \pm 20% ,
- Isat: Value obtained when DC current flows and the initial value of inductance has fallen by 10%
- Itemp current : Value obtained when current flows and the temperature has risen to 30 $^{\circ}$ C
- Test equipment Inductance: HP4284A LF impedance analyzer or equivalent (Test frequency: 100KHz/1V)
- RDC: CH502BC

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency (KHz)	DC Resistance (Ω \pm 20%)	Isat (A)	Itemp (A) Max
PSB1045-100M	10	20	1	0.0364	3	2.5
PSB1045-150M	15	20	1	0.0472	2.4	2.2
PSB1045-220M	22	20	1	0.0591	2.1	1.9
PSB1045-330M	33	20	1	0.0815	1.6	1.7
PSB1045-470M	47	20	1	0.1	1.4	1.5
PSB1045-680M	68	20	1	0.14	1.2	1.3
PSB1045-101M	100	20	1	0.2	1	1.1
PSB1045-151M	150	20	1	0.35	0.79	0.81
PSB1045-221M	220	20	1	0.47	0.65	0.7
PSB1045-331M	330	20	1	0.68	0.54	0.58
PSB1045-471M	470	20	1	1.03	0.47	0.47
PSB1045-681M	680	20	1	1.6	0.38	0.38
PSB1045-102M	1000	20	1	2.8	0.32	0.29
PSB1045-152M	1500	20	1	3.4	0.22	0.26

- Tolerance: M = \pm 20%
- Isat: Value obtained when DC current flows and the initial value of inductance has fallen by 10%
- Itemp current: Value obtained when current flows and the temperature has risen to 30 $^{\circ}$ C
- Test equipment Inductance: HP4284A LF impedance analyzer or equivalent (Test frequency:1KHz/0.5V)
- RDC: CH502BC

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency (KHz)	DC Resistance (m Ω) Max	Isat (A)
PSB1055-100M	10	20	1	40	3.5
PSB1055-330M	33	20	1	85	2.1

- Tolerance: M = \pm 20%
- Isat: Value obtained when DC current flows and the initial value of inductance has fallen by 15%
- Test equipment Inductance: HP4284A LF impedance analyzer or equivalent (Test frequency:1KHz/0.5V)
- RDC:CH502BC digital

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency (KHz)	DC Resistance ($\Omega \pm 20\%$)	Isat (A)	Itemp (A) Max
PSB1255-6R0M	6	20	1	0.0164	3.6	4.9
PSB1255-100M	10	20	1	0.0215	3.4	4.3
PSB1255-150M	15	20	1	0.0259	2.8	3.9
PSB1255-220M	22	20	1	0.0338	2.3	3.4
PSB1255-330M	33	20	1	0.0415	1.9	3.1
PSB1255-470M	47	20	1	0.0618	1.6	2.5
PSB1255-680M	68	20	1	0.0832	1.3	2.2
PSB1255-101M	100	20	1	0.117	1.1	1.8
PSB1255-151M	150	20	1	0.19	0.88	1.4
PSB1255-221M	220	20	1	0.27	0.72	1.2
PSB1255-331M	330	20	1	0.41	0.59	1
PSB1255-471M	470	20	1	0.52	0.49	0.88
PSB1255-681M	680	20	1	0.76	0.43	0.73
PSB1255-102M	1000	20	1	1.12	0.34	0.6
PSB1255-152M	1500	20	1	1.73	0.29	0.48

- Tolerance: M = $\pm 20\%$
- Isat: Value obtained when DC current flows and the initial value of inductance has fallen by 10%
- Itemp current: Value obtained when current flows and the temperature has risen to 30°C
- Test equipment Inductance: HP4284A LF impedance analyzer or equivalent (Test frequency: 1KHz/0.5V)
- RDC:CH502BC

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency (KHz)	DC Resistance ($\Omega \pm 20\%$)	Isat (A)	Itemp (A) Max
PSB1265-2R0T	2	30	1	0.0117	10	6.2
PSB1265-4R2T	4.2	30	1	0.015	7.3	5.5
PSB1265-7R0T	7	30	1	0.0177	5.7	5
PSB1265-100M	10	20	1	0.0202	5	4.8
PSB1265-150M	15	20	1	0.0237	4.2	4.4
PSB1265-220M	22	20	1	0.0316	3.5	3.8
PSB1265-330M	33	20	1	0.0406	2.8	3.4
PSB1265-470M	47	20	1	0.0578	2.4	2.8
PSB1265-680M	68	20	1	0.0787	2	2.4
PSB1265-101M	100	20	1	0.123	1.6	1.9
PSB1265-221M	220	20	1	0.273	1	1.2

- Tolerance: M = $\pm 20\%$
- Isat: Value obtained when DC current flows and the initial value of inductance has fallen by 10%
- Itemp current: Value obtained when current flows and the temperature has risen to 40°C
- Test equipment Inductance: HP4284A LF impedance analyzer or equivalent (Test frequency: 1KHz/0.5V)
- RDC:CH502BC

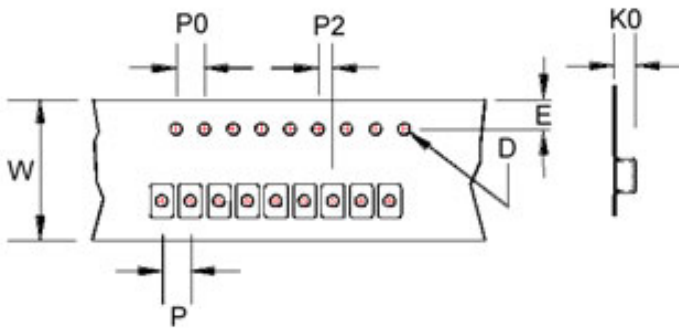
Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Test Frequency (KHz)	DC Resistance ($\Omega \pm 20\%$)	Isat (A)	Itemp (A) Max
PSB1275-1R2T	1.2	30	1	0.0069	13	8.2
PSB1275-2R7T	2.7	30	1	0.0094	10	7
PSB1275-3R9T	3.9	30	1	0.0104	9	6.7
PSB1275-5R6T	5.6	30	1	0.0116	7.8	6.3
PSB1275-6R8T	6.8	30	1	0.0131	7.2	5.9
PSB1275-100M	10	20	1	0.0156	5.5	5.4
PSB1275-150M	15	20	1	0.0184	4.7	5
PSB1275-220M	22	20	1	0.0263	4	4
PSB1275-330M	33	20	1	0.0395	3.2	3.4
PSB1275-470M	47	20	1	0.0528	2.7	3
PSB1275-680M	68	20	1	0.0778	2	2.4
PSB1275-101M	100	20	1	0.1250	1.9	1.9
PSB1275-151M	150	20	1	0.1750	1.5	1.6
PSB1275-221M	220	20	1	0.2580	1.3	1.3

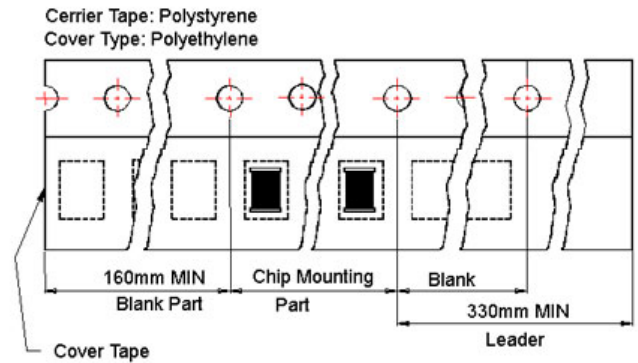
- Tolerance: M = $\pm 20\%$
- Isat: Value obtained when DC current flows and the initial value of inductance has fallen by 10%
- Itemp current: Value obtained when current flows and the temperature has risen to 40°C
- Test equipment Inductance: HP4284A LF impedance analyzer or equivalent (Test frequency: 1KHz/0.5V)
- RDC: CH502BC

Packaging Specifications

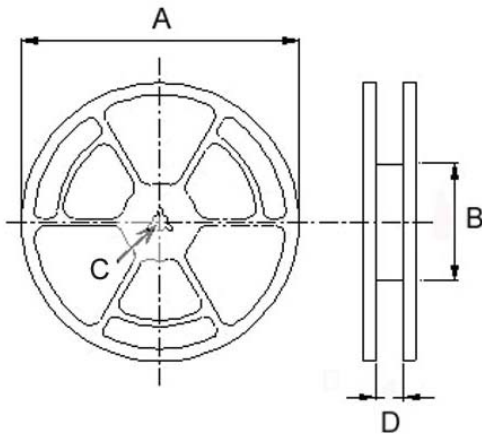
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity PCS / REEL
	K0	D	E	W	P	P0	P2	A	B	C	D	
PSB 0628	3.4	1.55	1.75	16	12	4	2	330	100	13	17.4	1000
PSB 0728	3.2	1.55	1.75	16	12	4	2	330	100	13	17.4	1000
PSB 0730	3.5	1.55	1.75	16	12	4	2	330	100	13	17.4	1000
PSB 0732	3.5	1.55	1.75	16	12	4	2	330	100	13	17.4	1000
PSB 0745	4.8	1.55	1.75	16	12	4	2	330	100	13	17.4	1000
PSB 0755	5.7	1.55	1.75	16	12	4	2	330	100	13	17.4	900
PSB 1045	5.0	1.55	1.75	24	16	4	2	330	100	13	24.4	500
PSB 1055	5.0	1.55	1.75	24	16	4	2	330	100	13	24.4	500
PSB 1255	6.0	1.55	1.75	24	16	4	2	330	100	13	24.4	500
PSB 1265	7.0	1.55	1.75	24	16	4	2	330	100	13	24.4	500
PSB 1275	8.2	1.55	1.75	24	16	4	2	330	100	13	24.4	350