

PSDB Series — SMD Shielded Power Inductor

Features

- Directly connected electrode on ferrite core
- Provides magnetic shielding against radiation
- Provides high power and high saturation
- For Inductance values outside those listed in the datasheet contact factory
- Find Environmental information and Packaging specs in related supplemental



Applications

- Power Supply for VTRs
- Personal Computers
- DC/DC converters
- LCD televisions
- Handheld communication

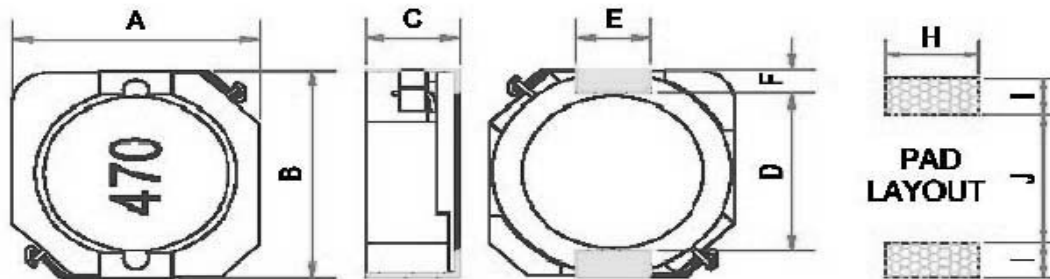
Inductance and Current ranges

- PSDB5D28 2.5 ~ 10 μ H 2.60 ~ 0.40 A
- PSDB1003 10 ~ 150 μ H 2.70 ~ 0.70 A
- PSDB1004 1.0 ~ 330 μ H 10.0 ~ 0.70 A
- PSDB1005 10 ~ 1000 μ H 3.45 ~ 0.35 A

How to Order

PSDB		5D28		N		T		101	
SEI Type		Dimensions		Tolerance		Packaging Style		Inductance	
Type	Description	Code	Dimensions (mm)	Code	Tolerance	Code	Inductance	Code	Inductance
PSDB	SMD Power Inductors	5D28	6.2x6.3x3.0	M	20%	1R0	1.0 μ H	470	47 μ H
		1003	10.3x10.4x3.0	N	30%	101	100 μ H	102	1000 μ H
		1004	10.3x10.4x4.0	P	+40/-20%				
		1005	10.3x10.4x5.0						

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Mechanical Specifications (mm)

Codes	A	B	C	D	E	F	H	I	J
PSDB5D28	6.2	6.3	3.0	4.7	2.0	0.6	2.6	1.0	4.6
PSDB1003	10.3	10.4	3.0	7.7	3.0	1.2	3.6	1.7	7.3
PSDB1004	10.3	10.4	4.0	7.7	3.0	1.2	3.6	1.7	7.3
PSDB1005	10.3	10.4	5.0	7.7	3.0	1.2	3.6	1.7	7.3

Electrical Characteristics - PSDB5D28

Part Number	L (μH)	Test Freq (Hz)	Tolerance (%)	DCR (mΩ) Max	I DC (A) Max
PSDB5D28-T2R5	2.5	100KHz	20, 30	17.6	2.60
PSDB5D28-T3R3	3.3	100KHz	20, 30	20.3	2.30
PSDB5D28-T4R0	4.0	100KHz	20, 30	27.0	2.10
PSDB5D28-T5R0	5.0	100KHz	20, 30	31.1	1.85
PSDB5D28-T6R0	6.0	100KHz	20, 30	41.9	1.70
PSDB5D28-T8R0	8.0	100KHz	20, 30	49.9	1.50
PSDB5D28-T100	10	100KHz	20, 30	54.0	1.30
PSDB5D28-T120	12	100KHz	20, 30	71.6	1.20
PSDB5D28-T150	15	100KHz	20, 30	82.4	1.10
PSDB5D28-T180	18	100KHz	20, 30	101.5	1.05
PSDB5D28-T220	22	100KHz	20, 30	119.0	0.95
PSDB5D28-T270	27	100KHz	20, 30	146.0	0.85
PSDB5D28-T330	33	100KHz	20, 30	182.5	0.76
PSDB5D28-T390	39	100KHz	20, 30	209.5	0.68
PSDB5D28-T470	47	100KHz	20, 30	229.5	0.60
PSDB5D28-T560	56	100KHz	20, 30	305.0	0.55
PSDB5D28-T680	68	100KHz	20, 30	351.0	0.48
PSDB5D28-T82	82	100KHz	20, 30	418.5	0.45
PSDB5D28-T101	100	100KHz	20, 30	520.0	0.40

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Electrical Characteristics - PSDB1003

Part Number	L (μ H)	Test Freq (Hz)	Tolerance (%)	DCR (m Ω) Max	I DC (A) Max
PSDB1003NT100	10	100KHz	30	58.1	2.70
PSDB1003NT120	12	100KHz	30	72.1	2.25
PSDB1003NT150	15	100KHz	30	86.5	2.22
PSDB1003NT180	18	100KHz	30	116.1	1.90
PSDB1003NT220	22	100KHz	30	145.4	1.78
PSDB1003NT270	27	100KHz	30	175.9	1.63
PSDB1003NT330	33	100KHz	30	213.4	1.16
PSDB1003NT390	39	100KHz	30	268.9	1.32
PSDB1003NT470	47	100KHz	30	298.6	1.18
PSDB1003NT560	56	100KHz	30	335.8	1.10
PSDB1003NT680	68	100KHz	30	451.3	1.04
PSDB1003NT82	82	100KHz	30	513.8	0.94
PSDB1003NT101	100	100KHz	30	700.0	0.84
PSDB1003NT121	120	100KHz	30	765.0	0.76
PSDB1003NT151	150	100KHz	30	876.3	0.70

Electrical Characteristics - PSDB1004

Part Number	L (μ H)	Test Freq (Hz)	Tolerance (%)	DCR (m Ω) Max	I DC (A) Max
PSDB1004PT1R0	1.0	100KHz	+40/-20	8.1	10.0
PSDB1004NT1R3	1.3	100KHz	30	8.1	10.0
PSDB1004NT2R5	2.5	100KHz	30	10	7.50
PSDB1004NT3R8	3.8	100KHz	30	13	6.00
PSDB1004NT5R2	5.2	100KHz	30	22	5.50
PSDB1004NT7R0	7.0	100KHz	30	27	4.80
PSDB1004NT100	10	100KHz	30	35	4.40
PSDB1004NT150	15	100KHz	30	50	3.60
PSDB1004NT220	22	100KHz	30	73	2.90
PSDB1004NT330	33	100KHz	30	93	2.30
PSDB1004NT470	47	100KHz	30	128	2.10
PSDB1004NT680	68	100KHz	30	213	1.50
PSDB1004NT101	100	100KHz	30	304	1.35
PSDB1004NT151	150	100KHz	30	506	1.15
PSDB1004NT221	220	100KHz	30	756	0.92
PSDB1004NT331	330	100KHz	30	1090	0.70

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Electrical Characteristics - PSDB1005

Part Number	L (μ H)	Test Freq (Hz)	Tolerance (%)	DCR (m Ω) Max	I DC (A) Max
PSDB1005NT100	10	100KHz	30	25.8	3.45
PSDB1005NT120	12	100KHz	30	32.0	3.40
PSDB1005NT150	15	100KHz	30	40.0	2.83
PSDB1005NT180	18	100KHz	30	46.0	2.62
PSDB1005NT220	22	100KHz	30	58.5	2.44
PSDB1005NT270	27	100KHz	30	65.4	2.24
PSDB1005NT330	33	100KHz	30	81.4	1.88
PSDB1005NT390	39	100KHz	30	103.1	1.70
PSDB1005NT470	47	100KHz	30	122.1	1.56
PSDB1005NT560	56	100KHz	30	144.8	1.39
PSDB1005NT680	68	100KHz	30	193.0	1.36
PSDB1005NT820	82	100KHz	30	219.4	1.20
PSDB1005NT101	100	100KHz	30	247.0	1.09
PSDB1005NT121	120	100KHz	30	298.4	1.00
PSDB1005NT151	150	100KHz	30	355.1	0.91
PSDB1005NT181	180	100KHz	30	393.4	0.84
PSDB1005NT221	220	100KHz	30	483.8	0.75
PSDB1005NT271	270	100KHz	30	632.5	0.68
PSDB1005NT331	330	100KHz	30	780.0	0.60
PSDB1005NT391	390	100KHz	30	957.5	0.57
PSDB1005NT471	470	100KHz	30	1220.4	0.50
PSDB1005NT561	560	100KHz	30	1352.4	0.47
PSDB1005NT681	680	100KHz	30	1519.2	0.43
PSDB1005NT821	820	100KHz	30	1694.4	0.39
PSDB1005NT102	1000	100KHz	30	1946.4	0.35