3. SSDB Series (Shielded Type)

Applications

- Watches, Toys Camera, Electronic Thermometers.
- Portable communication equipment.
- DC/DC converters, etc.
- Power supply for VTRs.
- Other various electronic appliances.

Features

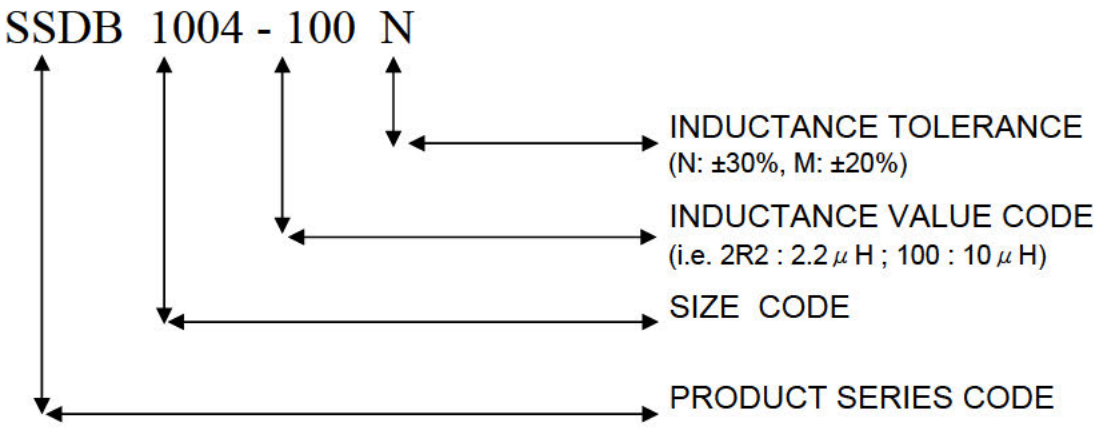
- Compact, low profile with low Rdc and large current.
- With magnetic shielded against radiation.
- Flat bottom surface allows reliable mounting onto the board.
- Available on tape and reel for auto surface mounting.

Inductance and Rated Current ranges

Part Series	Inductances range	Rated Current range
* SSDB5D28	2.5~100μH	2.600~0.400A
* SSDB1003	2.2~470μH	5.600~0.480A
* SSDB1004	1.2~1000μH	10.000~0.320A

(Dimension data (Refer to Fig. 1))

Part Numbering System



3. SSDB Series (Shielded Type)

Dimensions (mm)

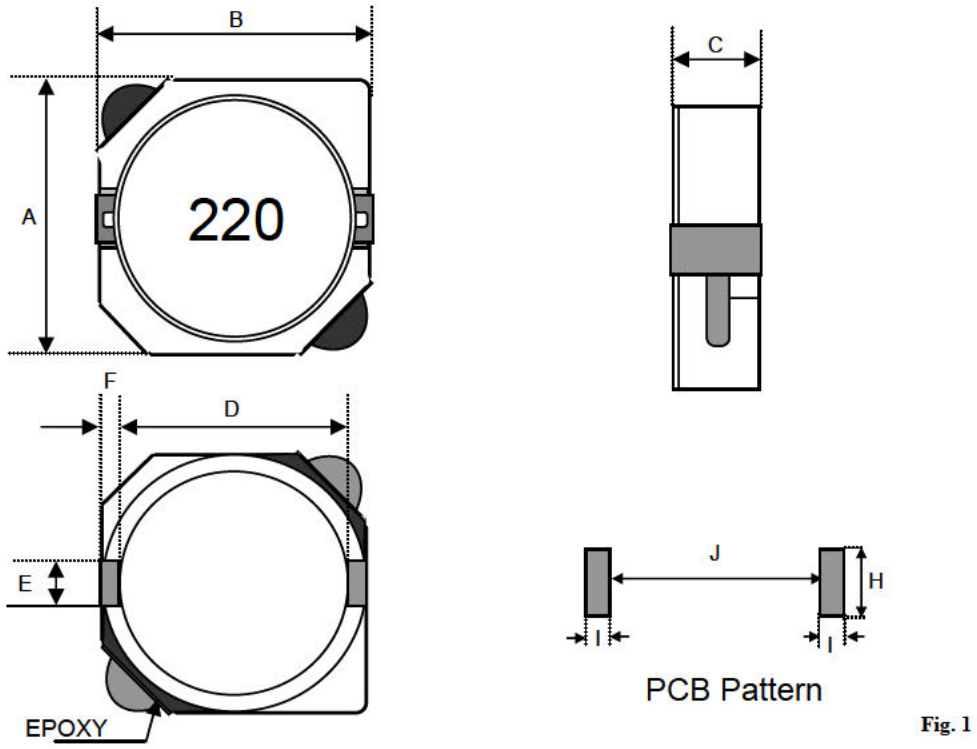


Fig. 1

Series	A (max)	B (max)	C (max)	D	E	F	H	I	J
SSDB5D28	6.2	6.3	3.0	4.7	2.0	0.6	2.6	1.0	4.6
SSDB1003	10.3	10.4	3.1	7.7	3.0	1.2	3.2	1.6	7.3
SSDB1004	10.3	10.4	4.0	7.7	3.0	1.2	3.2	1.6	7.3

3. SSDB Series (Shielded Type)

Electrical Characteristics

SSDB 5D28 / 1003 / 1004 TYPE

Inductance value code	L (μH)	Tol.	DC Resistance (mΩ) Max.			Rated DC Current (A) Max.		
			5D28	1003	1004	5D28	1003	1004
1R2	1.2	N	-	-	8.0	-	-	10.00
1R3	1.3	N	-	-	8.0	-	-	10.00
1R5	1.5	N	-	-	8.0	-	-	10.00
1R8	1.8	N	-	-	10.0	-	-	9.50
2R2	2.2	N	-	23.0	11.0	-	5.60	8.00
2R5	2.5	N	17.6	-	12.0	2.60	-	7.50
2R7	2.7	N	-	-	12.0	-	-	7.50
3R3	3.3	N	20.3	-	13.0	2.30	-	6.50
3R8	3.8	N	-	-	17.0	-	-	6.00
4R0	4.0	N	27.0	-	-	2.10	-	-
4R7	4.7	N	-	-	21.0	-	-	5.70
5R0	5.0	N	31.1	-	22.0	1.85	-	5.60
5R2	5.2	N	-	43.0	22.0	-	4.83	5.50
5R6	5.6	N	-	-	25.0	-	-	5.20
6R0	6.0	N	41.9	-	-	1.70	-	-
6R8	6.8	N	-	-	26.0	-	-	4.90
7R0	7.0	N	-	-	27.0	-	-	4.80
8R0	8.0	N	49.9	-	-	1.50	-	-
8R2	8.2	N	-	50.0	33.0	-	3.54	4.60
100	10	N	54.0	58.0	35.0	1.30	2.70	4.40
120	12	N	71.6	72.0	46.0	1.20	2.25	3.92
150	15	N	82.4	86.0	50.0	1.10	2.22	3.60
180	18	N	101.5	116.0	70.0	1.05	1.90	3.00
220	22	N	119.0	145.0	73.0	0.95	1.78	2.90
270	27	N	146.0	176.0	83.0	0.85	1.63	2.80
330	33	N	182.5	213.0	93.0	0.76	1.46	2.30
390	39	N	209.5	270.0	120.0	0.68	1.32	2.20
470	47	N	229.5	299.0	128.0	0.60	1.18	2.10
560	56	N	305.0	335.0	171.0	0.55	1.10	1.80
680	68	N	351.0	451.0	213.0	0.48	1.04	1.50
820	82	N	418.5	513.0	250.0	0.45	0.94	1.40
101	100	N	520.0	700.0	304.0	0.40	0.84	1.35
121	120	N	-	765.0	400.0	-	0.76	1.20
151	150	N	-	876.0	506.0	-	0.70	1.15
181	180	N	-	-	631.0	-	-	1.03
221	220	N	-	1050.0	756.0	-	0.58	0.92
271	270	N			853.0			0.84
331	330	N	-	-	1090.0	-	-	0.70
471	470	N	-	2170.0	1520.0	-	0.48	0.54
102	1000	N	-	-	3250.0	-	-	0.32

Notes:

1. Test Frequency : 100 KHz, 0.1V
2. Test equipment :
   L/Q : HP4284A LCR meter
   DCR: Milli-ohm meter.
3. Rated DC current: The current when the inductance decreases to 65% of its initial value or the actual current when the temperature of coil increases to △T=40℃.
4. Operating temperature range : -40℃~+105℃