SMD SHIELDED POWER INDUCTOR
- CSDB SERIES -

FEATURES

- Directly connected electrode on ferrite core
- High power, High saturation inductors
- Ideal inductors for DC/DC converters
- With magnetically shielded against radiation
- Available on tape and reel for automatic surface mounting.

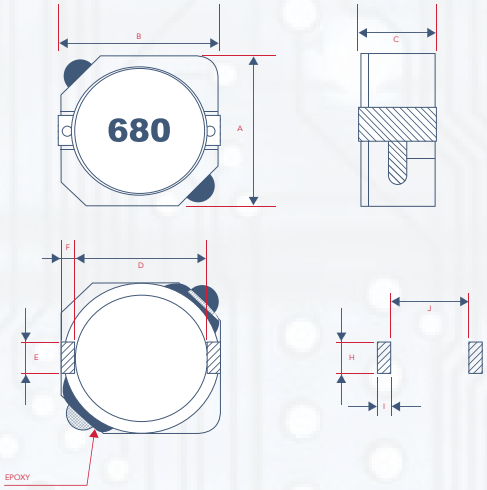
APPLICATIONS

- Power Supply for VTRs
- LCD Televisions -Notebook PCs
- Portable Communication
- DC/DC Converters, etc.

CHARACTERISTICS

- Rated DC current: The current when the inductance becomes 35% lower than its initial value or the actual current when the temperature of coil increases to ΔT=40°C. The smaller one is defined as Rated DC Current. (Ta=25°C)
- Operating temperature range: -40~85°C

MECHANICAL DIMENSION



UNIT=mm

TYPE	A (MAX)	B (MAX)	C (MAX)	D	E	F	H	I	J
CSDB5D28	6.2	6.3	3.0	4.7	2.0	0.6	2.6	1.0	4.6
CSDB1003	10.3	10.4	3.1	7.7	3.0	1.2	3.2	1.6	7.3
CSDB51004	10.3	10.4	4.0	7.7	3.0	1.2	3.2	1.6	7.3
CSDB1005	10.3	10.4	5.0	7.7	3.0	1.2	3.2	1.6	7.3

INDUCTANCE AND RATED CURRENT RANGES

- Electrical specifications at 25°C

CSDB5D28	2.5μH~100μH	2.60~0.40A
CSDB1003	10μH~150μH	2.70~0.70A
CSDB1004	1.3μH~330μH	10.0~0.70A
CSDB1005	1.5μH~1000μH	10.5~0.35A

PART NUMBERING

CSDB	5D28	N	101	T
PRODUCT TYPE	DIMENSIONS (AxBxC)	INDUCTOR TOLERANCE	PACKAGING STYLE	INDUCTANCE
	5D28: 6.2×6.3×3.0 1003: 10.3×10.4×3.1 1004: 10.3×10.4×4.0 1005: 10.3×10.4×5.0	M: ±20% N: ±30%	1R1: 1.1μH 470: 47μH 101: 100μH	T: Tape & Reel

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ELECTRICAL CHARACTERISTICS

CSDB5D28 / 1003 / 1004 / 1005 TYPE

CODES	L (μH)	TOLERANCE	TEST CONDITION	DCR (MΩ) MAX				IDC (A) MAX			
				5D28	1003	1004	1005	5D28	1003	1004	1005
1R3	1.3	M/N	100KHz, 0.1V	-	-	8	-	-	-	10.0	-
1R5	1.5	M/N	100KHz, 0.1V	-	-	8	6	-	-	10.0	10.5
2R2	2.2	M/N	100KHz, 0.1V	-	-	11	7	-	-	8.00	9.25
2R5	2.5	M/N	100KHz, 0.1V	17.6	-	12	-	2.60	-	7.50	-
3R3	3.3	M/N	100KHz, 0.1V	20.3	-	13	10	2.30	-	6.50	7.80
3R8	3.8	M/N	100KHz, 0.1V	-	-	17	-	-	-	6.00	-
4R0	4.0	M/N	100KHz, 0.1V	27.0	-	-	-	2.10	-	-	-
4R7	4.7	M/N	100KHz, 0.1V	-	-	21	12	-	-	5.70	6.40
5R0	5.0	M/N	100KHz, 0.1V	31.1	-	-	-	1.85	-	-	-
5R2	5.2	M/N	100KHz, 0.1V	-	-	22	-	-	-	5.50	-
5R6	5.6	M/N	100KHz, 0.1V	-	-	25	-	-	-	5.20	-
6R0	6.0	M/N	100KHz, 0.1V	41.9	-	-	-	1.70	-	-	-
6R8	6.8	M/N	100KHz, 0.1V	-	-	26	18	-	-	4.90	5.40
7R0	7.0	M/N	100KHz, 0.1V	-	-	27	-	-	-	4.80	-
8R0	8.0	M/N	100KHz, 0.1V	49.9	-	-	-	1.50	-	-	-
8R2	8.2	M/N	100KHz, 0.1V	-	-	-	20	-	-	-	4.85
100	10	M/N	100KHz, 0.1V	54.0	58	35	26	1.30	2.70	4.40	3.45
120	12	M/N	100KHz, 0.1V	71.6	72	-	33	1.20	2.25	-	3.40
150	15	M/N	100KHz, 0.1V	82.4	86	50	41	1.10	2.22	3.60	2.83
180	18	M/N	100KHz, 0.1V	101.5	116	-	46	1.05	1.90	-	2.62
220	22	M/N	100KHz, 0.1V	119.0	145	73	61	0.95	1.78	2.90	2.44
270	27	M/N	100KHz, 0.1V	146.0	176	83	69	0.85	1.63	2.80	2.24
330	33	M/N	100KHz, 0.1V	182.5	213	93	84	0.76	1.46	2.30	1.88
390	39	M/N	100KHz, 0.1V	209.5	270	-	106	0.68	1.32	-	1.70
470	47	M/N	100KHz, 0.1V	229.5	299	128	130	0.60	1.18	2.10	1.56
560	56	M/N	100KHz, 0.1V	305.0	335	-	149	0.55	1.10	-	1.39
680	68	M/N	100KHz, 0.1V	351.0	451	213	201	0.48	1.04	1.50	1.36
820	82	M/N	100KHz, 0.1V	418.5	513	-	227	0.45	0.94	-	1.20
101	100	M/N	100KHz, 0.1V	520.0	700	304	253	0.40	0.84	1.35	1.09
121	120	M/N	100KHz, 0.1V	-	765	-	303	-	0.76	-	1.00
151	150	M/N	100KHz, 0.1V	-	876	506	370	-	0.70	1.15	0.91
181	180	M/N	100KHz, 0.1V	-	-	631	419	-	-	1.03	0.84
221	220	M/N	100KHz, 0.1V	-	-	756	500	-	-	0.92	0.75
271	270	M/N	100KHz, 0.1V	-	-	-	672	-	-	-	0.68
331	330	M/N	100KHz, 0.1V	-	-	1090	812	-	-	0.70	0.60
391	390	M/N	100KHz, 0.1V	-	-	-	953	-	-	-	0.57
471	470	M/N	100KHz, 0.1V	-	-	-	1289	-	-	-	0.50
561	560	M/N	100KHz, 0.1V	-	-	-	1430	-	-	-	0.47
681	680	M/N	100KHz, 0.1V	-	-	-	1599	-	-	-	0.43
821	820	M/N	100KHz, 0.1V	-	-	-	1768	-	-	-	0.39
102	1000	M/N	100KHz, 0.1V	-	-	-	1989	-	-	-	0.35