

3. SDB2512T 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

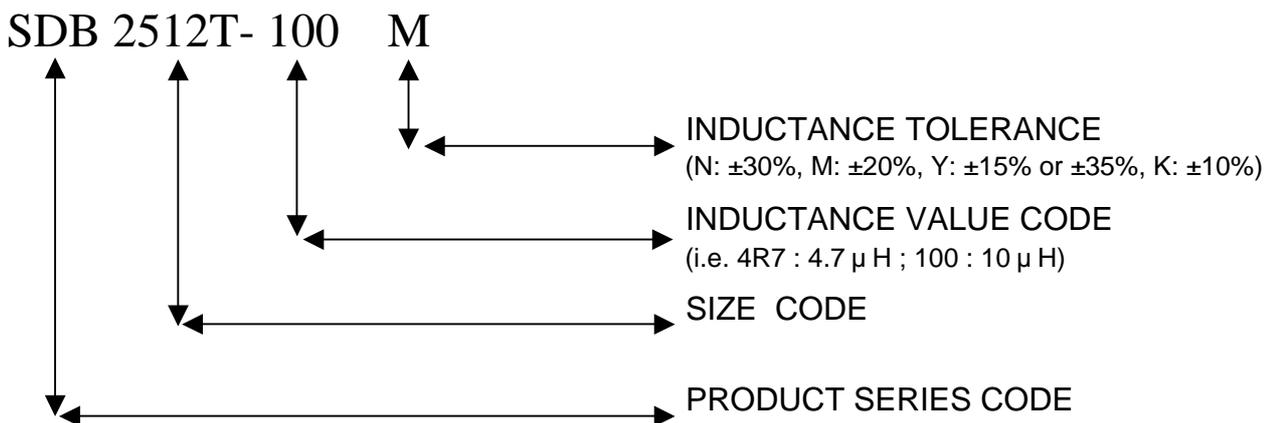
- Compact, low profile with low Rdc and large current.
- With magnetic shielded against radiation.
- Flat bottom surface allows reliable mounting onto the board.
- Available on tape and reel for auto surface mounting.

Inductance and Rated Current ranges

Part Series	Inductances range	Rated Current range
* SDB2512T	0.24~10 μ H	3.35~0.62A (Irms) ; 5.00~0.79A (Isat)

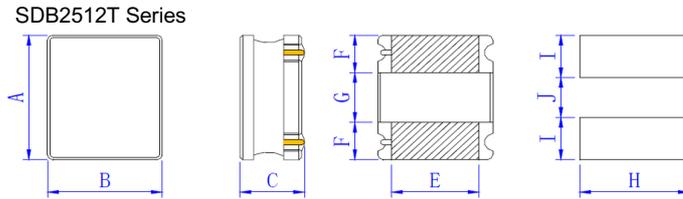
(Dimension data (Refer to Fig. 1))

Part Numbering System



3. SDB2512T Series (Shielded Type)

Dimensions (mm)



Unit: mm

A	2.50±0.20
B	2.10±0.20
C	1.25Max.
E	1.60Typ.
F	0.85Typ.
G	0.80Typ.
H	2.10Typ.
I	0.85Typ.
J	0.80Typ.

Fig. 1

3. SDB0540T Series (Shielded Type)

Electrical Characteristics

SDB2512T Type

Part No	L (μ H)	Tolerance	Test Condition	RDC (Ω)		Isat (A)	Irms (A)
				max	typ		
SDB2512T-R24	0.24	N	1MHz, 1V	0.034	0.028	5.00	-
SDB2512T-R33	0.33	N	1MHz, 1V	0.049	0.035	4.00	3.35
SDB2512T-R47	0.47	N	1MHz, 1V	0.061	0.042	3.82	2.15
SDB2512T-R68	0.68	N	1MHz, 1V	0.074	0.051	3.28	1.96
SDB2512T-1R0	1.0	M	1MHz, 1V	0.090	0.073	2.59	1.93
SDB2512T-1R5	1.5	M	1MHz, 1V	0.147	0.129	2.24	1.40
SDB2512T-2R2	2.2	M	1MHz, 1V	0.216	0.165	1.85	1.15
SDB2512T-3R3	3.3	M	1MHz, 1V	0.264	0.200	1.61	1.04
SDB2512T-4R7	4.7	M	1MHz, 1V	0.377	0.273	1.12	0.84
SDB2512T-5R6	5.6	M	1MHz, 1V	0.538	0.380	1.11	0.73
SDB2512T-6R8	6.8	M	1MHz, 1V	0.581	0.405	0.98	0.69
SDB2512T-8R2	8.2	M	1MHz, 1V	0.658	0.563	0.98	0.65
SDB2512T-100	10	M	1MHz, 1V	0.690	0.658	0.79	0.62

Characteristics

- Isat : DC current at which the inductance drops approximate 30% from its value without current, load current time within 1 second.
- Irms : The DC current is inductor surface temperature to rise by 40°C (Reference ambient temperature 20°C).
- Operating temperature range: -40~125°C
- Test equipment:
 - L: HP4263B or equivalent
 - DCR: RM3545 / Milli-ohm meter or equivalent
- Electrical specifications at 20°C