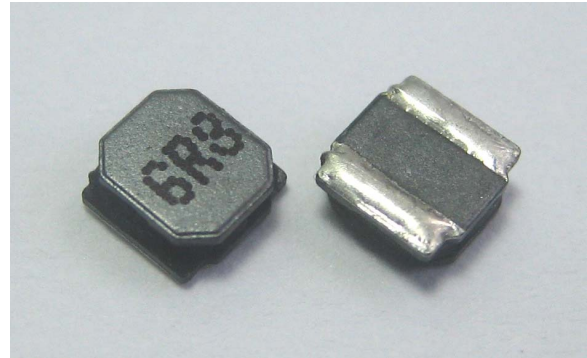


3. SDB0540T Series (Shielded Type)

Applications

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



Features

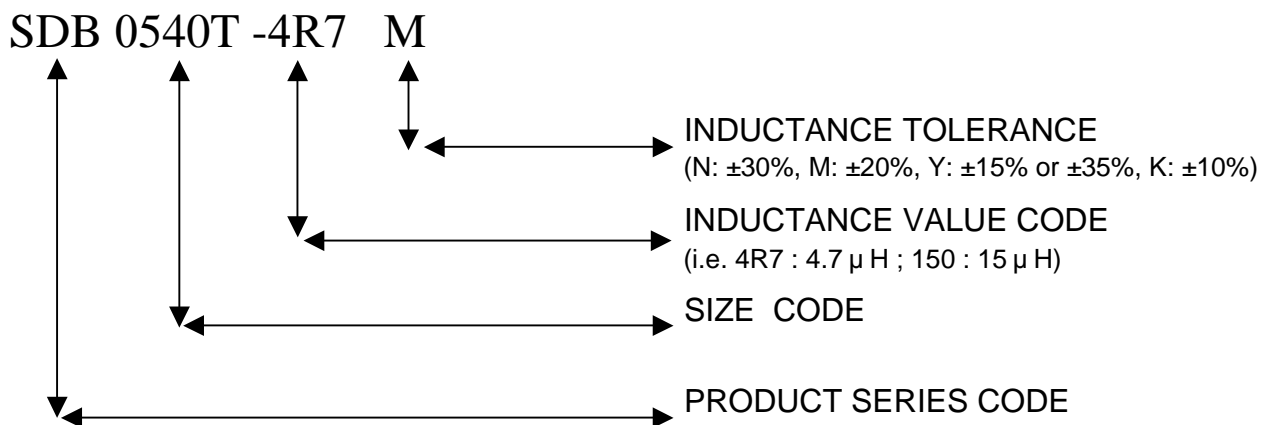
- Compact, low profile with low Rdc and large current.
- With magnetic shielded against radiation.
- Flat bottom surface allows reliable mounting onto the board.
- Available on tape and reel for auto surface mounting.

Inductance and Rated Current ranges

Part Series	Inductances range	Rated Current range
* SDB0540T	1.0~1000 μ H	4.90~0.19A (Irms) ; 7.35~0.21A (Isat)

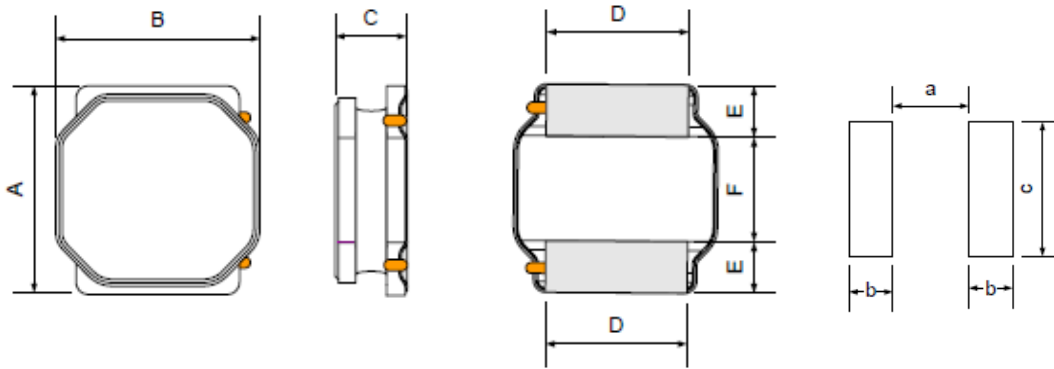
(Dimension data (Refer to Fig. 1))

Part Numbering System



3. SDB0540T Series (Shielded Type)

Dimensions (mm)



Unit: mm

A	5.0±0.2
B	5.0±0.2
C	4.2Max.
D	4.0 Typ.
E	1.2 Typ.
F	2.6 Typ.
a	2.4 Typ.
b	1.6 Typ.
c	4.4 Typ.

Fig. 1

3. SDB0540T Series (Shielded Type)**Electrical Characteristics****SDB0540T Type**

Part No.	Inductance (μ H)	Test Freq.	DC Resistance () \pm 30%	Rated DC current (A)	
				I sat (Max.)	I rms (Max.)
SDB0540T-1R0M	1.0 \pm 20%	100KHz, 0.5V	0.012	7.35	4.90
SDB0540T-1R5M	1.5 \pm 20%	100KHz, 0.5V	0.014	6.00	4.50
SDB0540T-2R2M	2.2 \pm 20%	100KHz, 0.5V	0.018	4.90	3.80
SDB0540T-3R3M	3.3 \pm 20%	100KHz, 0.5V	0.024	3.95	3.40
SDB0540T-4R7M	4.7 \pm 20%	100KHz, 0.5V	0.030	3.50	3.00
SDB0540T-5R6M	5.6 \pm 20%	100KHz, 0.5V	0.040	3.00	2.80
SDB0540T-6R8M	6.8 \pm 20%	100KHz, 0.5V	0.045	2.90	2.50
SDB0540T-8R2M	8.2 \pm 20%	100KHz, 0.5V	0.055	2.70	2.30
SDB0540T-100M	10 \pm 20%	100KHz, 0.5V	0.066	2.35	2.10
SDB0540T-150M	15 \pm 20%	100KHz, 0.5V	0.090	2.00	2.00
SDB0540T-220M	22 \pm 20%	100KHz, 0.5V	0.130	1.60	1.50
SDB0540T-330M	33 \pm 20%	100KHz, 0.5V	0.200	1.30	1.20
SDB0540T-390M	39 \pm 20%	100KHz, 0.5V	0.230	1.20	1.10
SDB0540T-470M	47 \pm 20%	100KHz, 0.5V	0.300	1.00	1.00
SDB0540T-560M	56 \pm 20%	100KHz, 0.5V	0.330	0.95	0.85
SDB0540T-680M	68 \pm 20%	100KHz, 0.5V	0.420	0.90	0.80
SDB0540T-820M	82 \pm 20%	100KHz, 0.5V	0.500	0.80	0.75
SDB0540T-101M	100 \pm 20%	1.0KHz, 0.5V	0.620	0.75	0.70
SDB0540T-151M	150 \pm 20%	1.0KHz, 0.5V	0.850	0.65	0.60
SDB0540T-181M	180 \pm 20%	1.0KHz, 0.5V	1.150	0.50	0.43
SDB0540T-221M	220 \pm 20%	1.0KHz, 0.5V	1.200	0.46	0.42
SDB0540T-331M	330 \pm 20%	1.0KHz, 0.5V	1.750	0.40	0.36
SDB0540T-391M	390 \pm 20%	1.0KHz, 0.5V	2.500	0.35	0.32
SDB0540T-471M	470 \pm 20%	1.0KHz, 0.5V	2.850	0.32	0.30
SDB0540T-561M	560 \pm 20%	1.0KHz, 0.5V	3.200	0.30	0.28
SDB0540T-681M	680 \pm 20%	1.0KHz, 0.5V	3.750	0.27	0.25
SDB0540T-821M	820 \pm 20%	1.0KHz, 0.5V	5.700	0.24	0.22
SDB0540T-102M	1000 \pm 20%	1.0KHz, 0.5V	6.500	0.21	0.19

Characteristics

- Isat : DC current at which the inductance drops approximate 30% from its value without current
- 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 HP4284A LCR meter
 - DCR: Milli-ohm meter
- Electrical specifications at 20°C