

3. SDB0520T 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

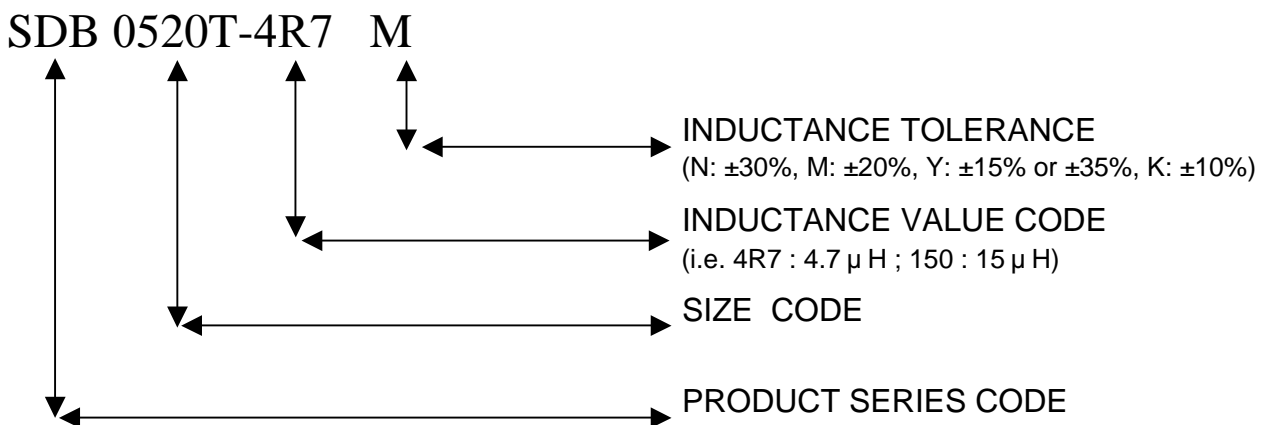
- Compact, low profile with low Rdc and large current.
- With magnetic shielded against radiation.
- Flat bottom surface allows reliable mounting onto the board.
- Available on tape and reel for auto surface mounting.

Inductance and Rated Current ranges

Part Series	Inductances range	Rated Current range
SDB0520T	0.47~100uH	6.15 ~ 0.53A
SDB0540T	1.00~1000uH	7.35 ~ 0.21A

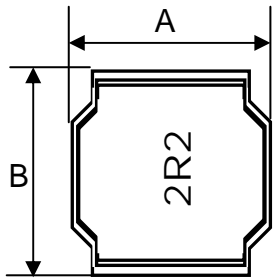
(Dimension data (Refer to Fig. 1))

Part Numbering System

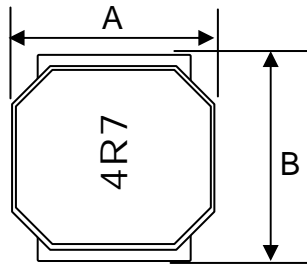


3. SDB0520T Series (Shielded Type)

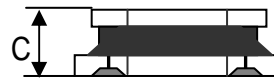
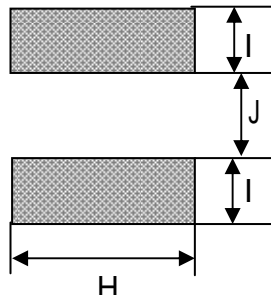
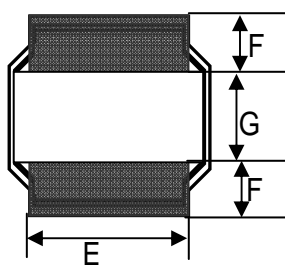
Dimensions (mm)



SDB0520T



SDB0540T



Dimensions

Type	A	B	C	E	F	G	H	I	J
	mm	mm	mm	mm	mm	mm	mm	mm	mm
SDB0520T	5.0±0.2	5.0±0.2	2.1 max	4.0 typ	1.2 typ	2.6 typ	4.4 typ	1.6 typ	2.4 typ
SDB0540T	5.0±0.2	5.0±0.2	4.2 max	4.0 typ	1.2 typ	2.6 typ	4.4 typ	1.6 typ	2.4 typ

Characteristics

- Isat : DC current at which the inductance drops approximate 30% from its value without current
- I_{ms} : 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

3. SDB0520T Series (Shielded Type)

Electrical Characteristics

SDB0520T Type

Part No.	L (μ H)	Tolerance	Test Condition	DCR (Ω) \pm 30%	Isat (A) max.	Irms (A) max.
SDB0520T-R47	0.47	M, N	100KHz, 0.5V	0.016	6.15	5.00
SDB0520T-R75	0.75	M, N	100KHz, 0.5V	0.018	5.50	4.00
SDB0520T-1R0	1.0	M, N	100KHz, 0.5V	0.020	4.40	3.80
SDB0520T-1R5	1.5	M, N	100KHz, 0.5V	0.028	4.10	3.20
SDB0520T-2R2	2.2	M, N	100KHz, 0.5V	0.033	3.20	2.90
SDB0520T-3R3	3.3	M, N	100KHz, 0.5V	0.043	2.55	2.50
SDB0520T-4R7	4.7	M, N	100KHz, 0.5V	0.058	2.50	2.20
SDB0520T-5R6	5.6	M, N	100KHz, 0.5V	0.068	2.30	2.05
SDB0520T-6R8	6.8	M, N	100KHz, 0.5V	0.075	2.05	1.80
SDB0520T-8R2	8.2	M, N	100KHz, 0.5V	0.096	1.85	1.65
SDB0520T-100	10	M, N	100KHz, 0.5V	0.120	1.70	1.55
SDB0520T-150	15	M, N	100KHz, 0.5V	0.165	1.35	1.25
SDB0520T-180	18	M, N	100KHz, 0.5V	0.200	1.25	1.15
SDB0520T-220	22	M, N	100KHz, 0.5V	0.220	1.15	1.10
SDB0520T-330	33	M, N	100KHz, 0.5V	0.350	0.92	0.90
SDB0520T-390	39	M, N	100KHz, 0.5V	0.410	0.80	0.75
SDB0520T-470	47	M, N	100KHz, 0.5V	0.520	0.77	0.77
SDB0520T-560	56	M, N	100KHz, 0.5V	0.600	0.77	0.70
SDB0520T-680	68	M, N	100KHz, 0.5V	0.680	0.65	0.64
SDB0520T-820	82	M, N	100KHz, 0.5V	0.860	0.55	0.55
SDB0520T-101	100	M, N	100KHz, 0.5V	1.100	0.53	0.53