

3. SDB0418T Series (Shielded Type)

Applications

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



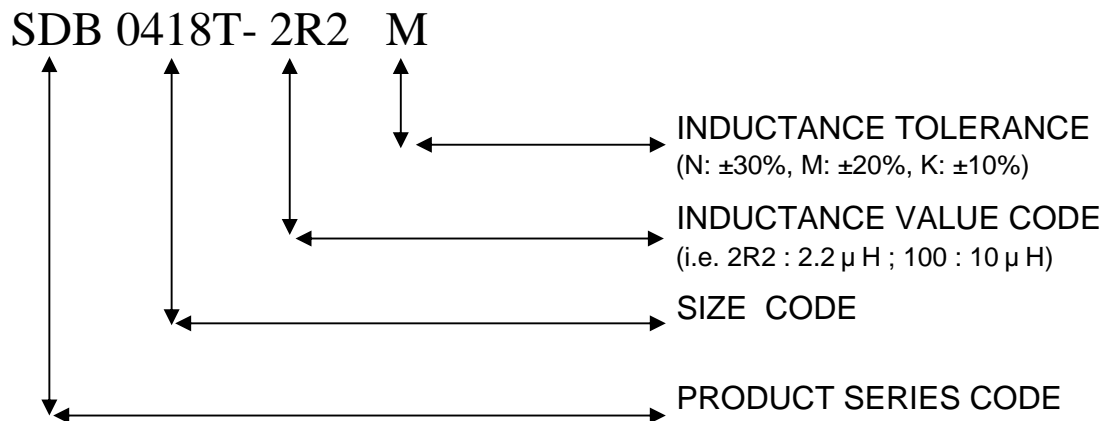
Features

- 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

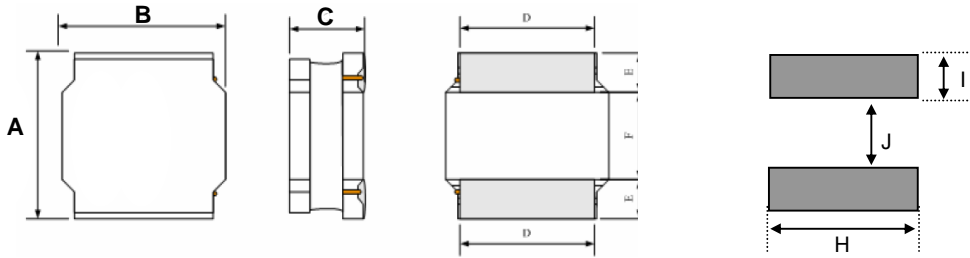
Part Series	Inductances range	Rated Current range
* SDB0418T	1.00~100 μ H	2.000~0.250A (Irms) ; 4.300~0.400A (Isat)
* SDB0430T	1.00~120 μ H	2.000~0.170A (Irms) ; 4.800~0.270A (Isat)

Part Numbering System



3. SDB0418T Series (Shielded Type)

Dimensions (mm)



SDB0418T / SDB0430T

Fig. 3

Series	A	B	C (max.)	D	E	F	H (typ.)	I (typ.)	J (typ.)
SDB0418T	4.00±0.20	4.00±0.20	1.80	3.40 typ.	1.20 typ.	1.60 typ.	3.60	1.40	1.60
SDB0430T	4.00±0.20	4.00±0.20	3.00	3.40 typ.	1.20 typ.	1.60 typ.	3.60	1.40	1.60

3. SDB0418T Series (Shielded Type)**Electrical Characteristics**

Part No	L (μ H)	Tolerance	Test Condition	DCR (Ω) \pm 30%	Isat (A) max.	Irms (A) max.
SDB0418T-1R0	1.0	M, N	100KHz, 0.5V	0.030	4.30	2.00
SDB0418T-1R5	1.5	M, N	100KHz, 0.5V	0.040	3.35	1.80
SDB0418T-2R2	2.2	M, N	100KHz, 0.5V	0.045	2.70	1.65
SDB0418T-2R7	2.7	M, N	100KHz, 0.5V	0.058	2.30	1.45
SDB0418T-3R3	3.3	M, N	100KHz, 0.5V	0.070	2.00	1.23
SDB0418T-4R7	4.7	M, N	100KHz, 0.5V	0.090	1.70	1.20
SDB0418T-6R8	6.8	M, N	100KHz, 0.5V	0.110	1.45	1.06
SDB0418T-8R2	8.2	M, N	100KHz, 0.5V	0.160	1.35	0.90
SDB0418T-100	10	M, N	100KHz, 0.5V	0.180	1.30	0.84
SDB0418T-150	15	M, N	100KHz, 0.5V	0.250	0.94	0.65
SDB0418T-220	22	M, N	100KHz, 0.5V	0.360	0.80	0.59
SDB0418T-330	33	M, N	100KHz, 0.5V	0.530	0.65	0.49
SDB0418T-470	47	M, N	100KHz, 0.5V	0.650	0.57	0.42
SDB0418T-560	56	M, N	100KHz, 0.5V	0.900	0.51	0.38
SDB0418T-680	68	M, N	100KHz, 0.5V	1.000	0.47	0.32
SDB0418T-820	82	M, N	100KHz, 0.5V	1.300	0.43	0.28
SDB0418T-101	100	M, N	100KHz, 0.5V	1.500	0.40	0.25

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