

### 3. SDB0430T Series (Shielded Type)

#### Applications

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



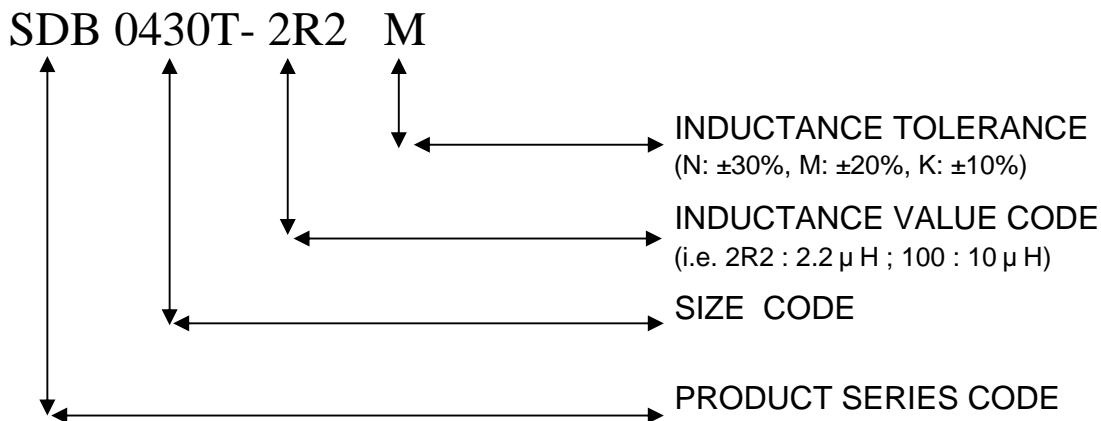
#### Features

- 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

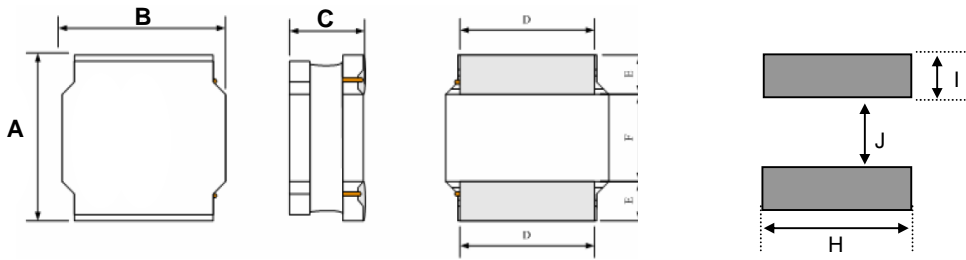
Part Series	Inductances range	Rated Current range
* SDB0418T	1.00~100 $\mu$ H	2.000~0.250A (Irms) ; 4.300~0.400A (Isat)
* SDB0430T	1.00~120 $\mu$ H	2.000~0.170A (Irms) ; 4.800~0.270A (Isat)

#### Part Numbering System



3. SDB0430T 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. SDB0430T Series (Shielded Type)****Electrical Characteristics**

Part No	L ( $\mu$ H)	Tolerance	Test Condition	DCR ( $\Omega$ ) $\pm$ 30%	Isat (A) max.	Irms (A) max.
SDB0430T - 1R0	1.0	M , N	100KHz, 0.5V	0.016	5.26	4.15
SDB0430T - 1R5	1.5	M , N	100KHz, 0.5V	0.020	4.84	3.34
SDB0430T - 2R2	2.2	M , N	100KHz, 0.5V	0.030	4.00	3.00
SDB0430T - 3R3	3.3	M , N	100KHz, 0.5V	0.040	3.30	2.40
SDB0430T - 3R9	3.9	M , N	100KHz, 0.5V	0.057	3.00	2.10
SDB0430T - 4R7	4.7	M , N	100KHz, 0.5V	0.060	2.90	2.00
SDB0430T - 6R8	6.8	M , N	100KHz, 0.5V	0.090	2.20	1.60
SDB0430T - 100	10	M , N	100KHz, 0.5V	0.100	1.95	1.50
SDB0430T - 150	15	M , N	100KHz, 0.5V	0.190	1.65	1.11
SDB0430T - 220	22	M ,N	100KHz, 0.5V	0.250	1.30	1.00
SDB0430T - 330	33	M ,N	100KHz, 0.5V	0.330	1.10	0.84
SDB0430T - 470	47	M ,N	100KHz, 0.5V	0.600	0.95	0.72
SDB0430T - 680	68	M ,N	100KHz, 0.5V	0.868	0.72	0.52
SDB0430T - 820	82	M ,N	100KHz, 0.5V	1.060	0.66	0.47
SDB0430T - 101	100	M ,N	100KHz, 0.5V	1.150	0.60	0.45
SDB0430T - 121	120	M ,N	100KHz, 0.5V	1.350	0.57	0.55

**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