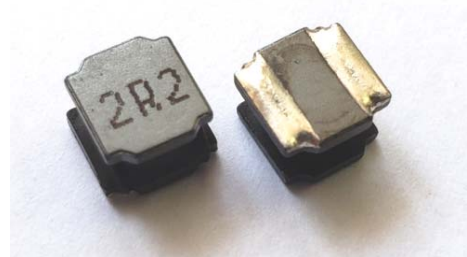


**3. SDB 0628T Series (Shielded Type)**

**Applications**

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



**Features**

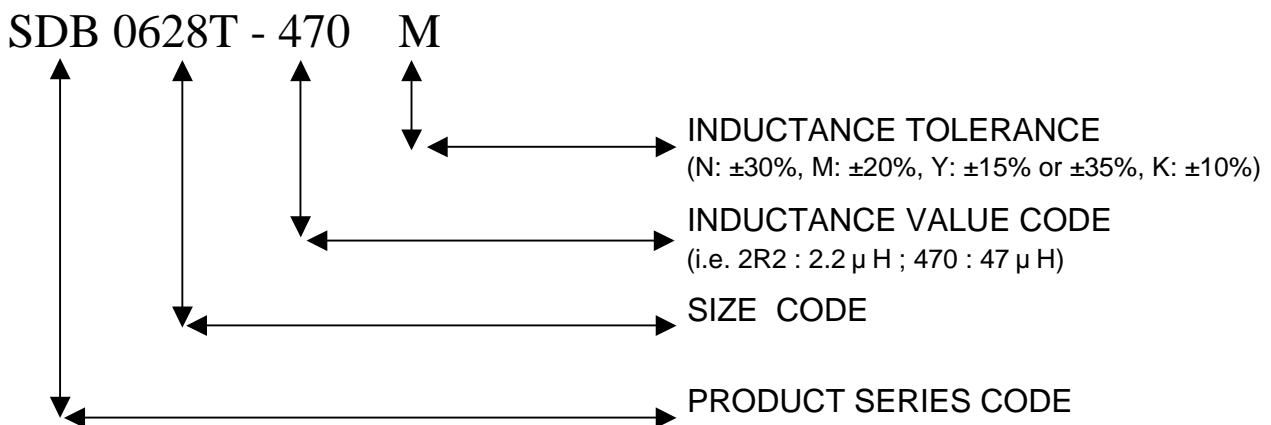
- Compact, low profile with low Rdc and large current.
- With magnetic shielded against radiation.
- Flat bottom surface allows reliable mounting onto the board.
- Available on tape and reel for auto surface mounting.

**Inductance and Rated Current ranges**

Part Series	Inductances range	Rated Current range
* SDB0628T	1.00~680 $\mu$ H	5.20~0.23A (Irms) ; 5.75~0.23A (Isat)

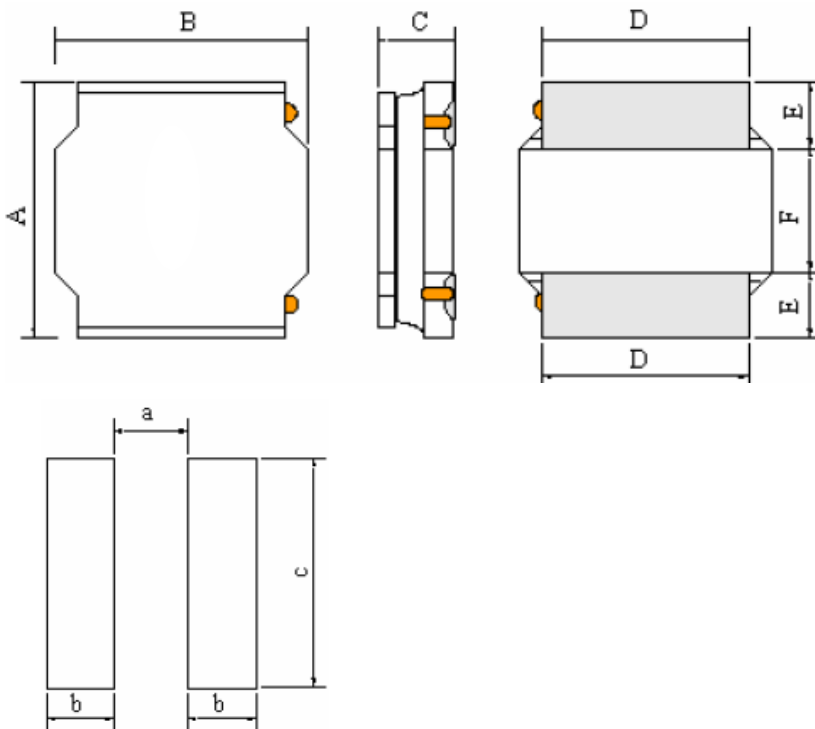
*(Dimension data (Refer to Fig. 1))*

**Part Numbering System**



3. SDB 0628T Series (Shielded Type)

Dimensions (mm)



Unit: mm

A	6.0±0.3
B	6.0±0.3
C	2.8 Max.
D	5.0 Typ.
E	1.50 Typ.
F	3.0 Typ.
a	2.6 Typ.
b	1.9 Typ.
c	5.7 Typ.

**Construction & Material:**

1. Ferrite Core: Ni-Zn Ferrite
2. Wire: Polyurethane system enameled copper wire
3. Magnetic Glue: Epoxy resin and magnetic powder
4. Plating Electrodes: Plating: Ag/Ni/Sn
5. Outer Electrodes: Top surface solder coating: Sn/Ag/Cu
6. Product comply with RoHS' requirement

## 3. SDB 0628T Series (Shielded Type)

### Electrical Characteristics

Part No	L (μH)	Tolerance	Test Condition	DCR (Ω) ±30%	Isat (A) max.	Irms (A) max.
SDB0628T-1R0	1.0	M, N	100KHz, 0.5V	0.014	5.75	5.20
SDB0628T-1R5	1.5	M, N	100KHz, 0.5V	0.016	5.00	4.58
SDB0628T-2R2	2.2	M, N	100KHz, 0.5V	0.020	5.10	3.75
SDB0628T-3R3	3.3	M, N	100KHz, 0.5V	0.023	3.60	3.48
SDB0628T-3R9	3.9	M, N	100KHz, 0.5V	0.028	3.00	3.20
SDB0628T-4R7	4.7	M, N	100KHz, 0.5V	0.031	2.70	3.08
SDB0628T-6R8	6.8	M, N	100KHz, 0.5V	0.048	2.30	2.40
SDB0628T-100	10	M, N	100KHz, 0.5V	0.065	1.90	1.95
SDB0628T-150	15	M, N	100KHz, 0.5V	0.095	1.60	1.45
SDB0628T-220	22	M, N	100KHz, 0.5V	0.135	1.30	1.40
SDB0628T-270	27	M, N	100KHz, 0.5V	0.155	1.50	1.32
SDB0628T-330	33	M, N	100KHz, 0.5V	0.220	1.10	1.22
SDB0628T-390	39	M, N	100KHz, 0.5V	0.225	1.25	1.10
SDB0628T-470	47	M, N	100KHz, 0.5V	0.300	0.95	1.06
SDB0628T-680	68	M, N	100KHz, 0.5V	0.420	0.76	0.86
SDB0628T-820	82	-M, N	100KHz, 0.5V	0.520	0.64	0.70
SDB0628T-101	100	M, N	100KHz, 0.5V	0.570	0.62	0.70
SDB0628T-151	150	M, N	100KHz, 0.5V	0.760	0.50	0.50
SDB0628T-221	220	M, N	100KHz, 0.5V	1.200	0.38	0.38
SDB0628T-331	330	M, N	100KHz, 0.5V	1.800	0.32	0.32
SDB0628T-471	470	M, N	100KHz, 0.5V	2.300	0.28	0.28
SDB0628T-681	680	M, N	100KHz, 0.5V	4.600	0.23	0.23

- Test equipment:
  - L HP4284A LCR meter
  - DCR: Milli-ohm meter
- Electrical specifications at 20°C

### 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