

SMT Inductors

For Power Line

SDS Series SDS6028 Type

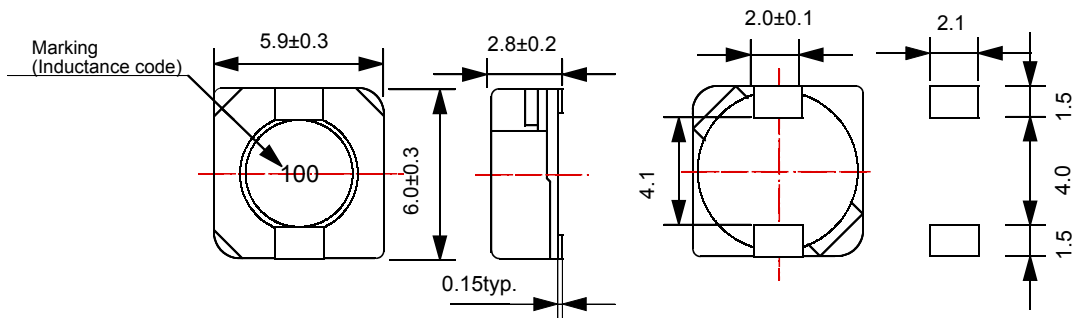
Special Features

- High current capacity
- Low DC resistance
- Low profile
- Magnetically shielded, can be used in high-density mounting
- Flat bottom surface ensures secure, reliable mounting
- Operating temperature -30 ~ 100 °C, including self-temperature rise

Applications

- Portable telephones, hard disk drives, personal computers, and other electronic equipment.

SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN



Dimension in mm

ELECTRICAL CHARACTERISTICS

Inductance (μH)	Inductance tolerance (%)	Test frequency L(kHz)	DC resistance (Ω) ±20%	Rated current (A) * Typ.		Part No.
				Based on inductance change	Based on temperature rise	
4.7	±30	1	0.0251	1.96	3.31	SDS6028-4R7N
7.8	±30	1	0.0411	1.44	2.28	SDS6028-7R8N
10	±20	1	0.0478	1.37	1.99	SDS6028-100M
12	±20	1	0.0558	1.18	1.74	SDS6028-120M
15	±20	1	0.0662	1.04	1.72	SDS6028-150M
18	±20	1	0.0818	0.98	1.4	SDS6028-180M
22	±20	1	0.092	0.83	1.25	SDS6028-220M
27	±20	1	0.127	0.74	1.08	SDS6028-270M
33	±20	1	0.140	0.66	1.03	SDS6028-330M
39	±20	1	0.160	0.64	0.89	SDS6028-390M
47	±20	1	0.179	0.59	0.85	SDS6028-470M
68	±20	1	0.28	0.5	0.63	SDS6028-680M
100	±20	1	0.388	0.4	0.47	SDS6028-101M
150	±20	1	0.614	0.32	0.36	SDS6028-151M

*Rated current: Value obtained when current flows and the temperature has risen to 25°C or when DC current flows and the initial value of inductance has fallen by 30%, whichever is smaller.

* All specifications are subject to change without notice.

Power-Mag