SMT Power Inductor

SIL530 Type

Features

- Small size (4.8mm*4.8mm), low profile (3.0mm max. height) SMD type.
- Magnetically shielded, suitable for high density mounting.
- High energy storage and low DCR.
- Provided with embossed carrier tape packing.
- Ideal for power source circuits, DC-DC converter, DC-AC inverters inductor application.
- In addition to the standard versions shown here, custom inductors are available to meet your exact requirements.

Mechanical Dimension: Unit: mm

Electrical Characteristics:

PART NO.	L ★ (uH)	DCR (Ω) MAX	I_{RATED}★★ (Adc)
SIL530 - 1R2	1.2	0.0236	2.56
SIL530 - 1R5	1.5	0.0275	2.20
SIL530 - 2R2	2.2	0.0313	2.04
SIL530 - 2R7	2.7	0.0433	1.60
SIL530 - 3R3	3.3	0.0492	1.57
SIL530 - 3R9	3.9	0.0648	1.44
SIL530 - 4R7	4.7	0.0720	1.32
SIL530 - 5R6	5.6	0.1009	1.17
SIL530 - 6R8	6.8	0.1089	1.12
SIL530 - 8R2	8.2	0.1175	1.04
SIL530 - 100	10	0.1283	1.00
SIL530 - 120	12	0.1316	0.84
SIL530 - 150	15	0.1490	0.76
SIL530 - 180	18	0.1660	0.72
SIL530 - 220	22	0.2350	0.70
SIL530 - 270	27	0.2610	0.58
SIL530 - 330	33	0.3780	0.56
SIL530 - 390	39	0.3837	0.50
SIL530 - 470	47	0.5870	0.48
SIL530 - 560	56	0.6245	0.41
SIL530 - 680	68	0.6990	0.35
SIL530 - 820	82	0.9148	0.32
SIL530 - 101	100	0.802	0.29
SIL530 - 121	120	1.2700	0.27
SIL530 - 151	150	1.3500	0.24
SIL530 - 181	180	1.5400	0.22

★ Tolerance of inductance 1.2~180uH±30%

★★ I_{RATED}: rated current. ΔL<35%, ΔT<45°C at I_{RATED}

★★★ Operating temperature: -20°C to 105°C (including self-temperature rise)

★★★★ Test condition at 25°C: 100KHz, 0.1V