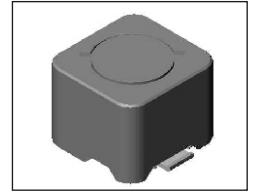


SMT Power Inductor

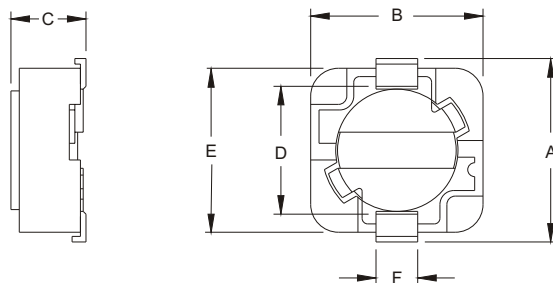
SIQ63 Type

Features

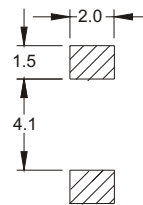
- RoHS compliant.
- Small size (6.2mm*6.6mm), low profile (3.0mm max. height) SMD type.
- Magnetically shielded, suitable for high density mounting.
- High energy storage and low DCR.
- Provided with embossed carrier tape packing.
- Ideal for power source circuits, DC-DC converter, DC-AC inverters inductor applications.
- In addition to the standard versions shown here, customized inductors are available to meet your exact requirements.



Mechanical Dimension:



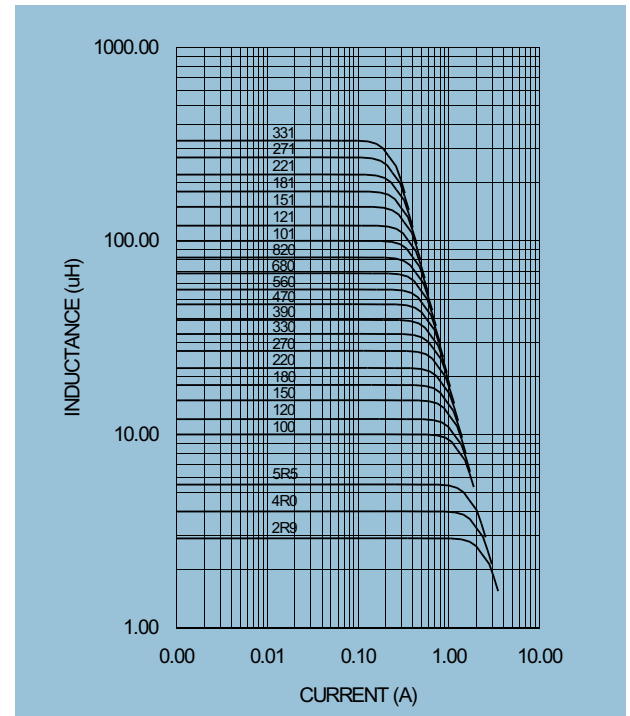
RECOMMENDED PAD PATTERNS



UNIT:mm/inch
 A = $6.6 \pm 0.3 / 0.260 \pm 0.012$
 B = $6.2 \pm 0.3 / 0.244 \pm 0.012$
 C = $3.0 / 0.118$ Max.
 D = $4.6 \pm 0.2 / 0.181 \pm 0.008$
 E = $5.9 \pm 0.3 / 0.232 \pm 0.012$
 F = $1.5 \pm 0.2 / 0.059 \pm 0.008$

Electrical Characteristics: 25°C, 2.9~5.5uH 100KHz, 0.1V. 10~330uH 1KHz, 1V.

PART NO.	L ¹ (uH)	DCR (Ω) MAX	I _{rated} ² (Adc)
SIQ63 - 2R9	2.9	0.068	1.94
SIQ63 - 4R0	4.0	0.080	1.63
SIQ63 - 5R5	5.5	0.096	1.40
SIQ63 - 100	10.0	0.150	1.10
SIQ63 - 120	12.0	0.200	1.00
SIQ63 - 150	15.0	0.230	0.90
SIQ63 - 180	18.0	0.270	0.80
SIQ63 - 220	22.0	0.340	0.74
SIQ63 - 270	27.0	0.380	0.66
SIQ63 - 330	33.0	0.450	0.59
SIQ63 - 390	39.0	0.490	0.54
SIQ63 - 470	47.0	0.690	0.50
SIQ63 - 560	56.0	0.780	0.46
SIQ63 - 680	68.0	1.070	0.42
SIQ63 - 820	82.0	1.210	0.38
SIQ63 - 101	100.0	1.390	0.34
SIQ63 - 121	120.0	1.900	0.31
SIQ63 - 151	150.0	2.180	0.28
SIQ63 - 181	180.0	2.770	0.26
SIQ63 - 221	220.0	3.120	0.23
SIQ63 - 271	270.0	4.380	0.22
SIQ63 - 331	330.0	4.940	0.19



1. Tolerance of inductance: $\pm 20\%$.
2. I_{rated} is the DC current which cause the inductance drop less than 25% of its nominal inductance without current and the surface temperature of the part increase less than 45°C.
3. Operating temperature: -20°C to 105°C (including self-temperature rise)



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