

# SMT Power Inductor

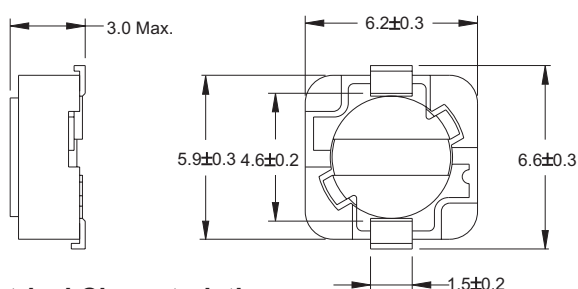
## SIQ63 Type

### Features

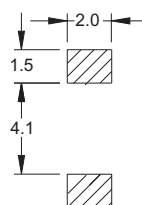
- Small size (6.2mm\*6.6mm), low profile (3.0mm max. Height) SMD type.
- Magnetically shielded, suitable for high density mounting.
- High energy storage and low DCR.
- Provided with embossed carrier tape packing.
- Ideal for power source circuits, DC-DC converter, DC-AC inverters inductor application.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



### Mechanical Dimension: Unit: mm

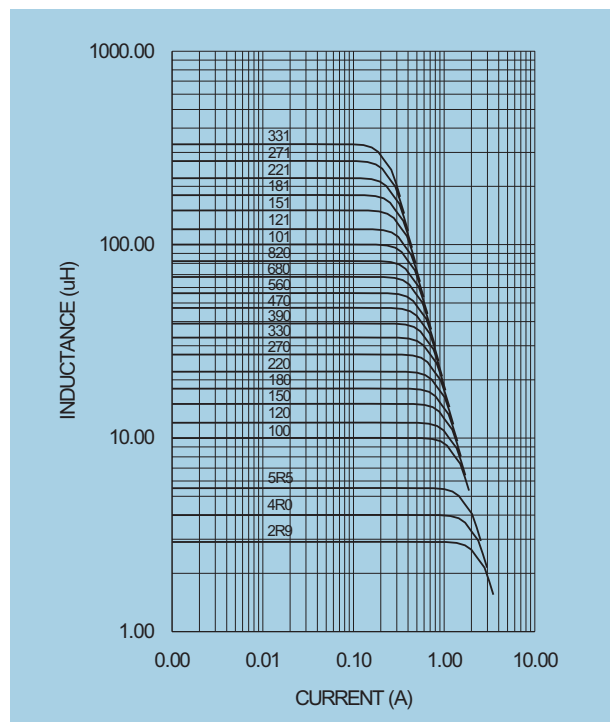


### Recommended Pad



### Electrical Characteristics:

| PART NO.    | L*<br>(uH) | DCR<br>(Ω) MAX | I <sub>RATED</sub> **<br>(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         | 0.150          | 1.10                           |
| SIQ63 - 120 | 12         | 0.200          | 1.00                           |
| SIQ63 - 150 | 15         | 0.230          | 0.90                           |
| SIQ63 - 180 | 18         | 0.270          | 0.80                           |
| SIQ63 - 220 | 22         | 0.340          | 0.74                           |
| SIQ63 - 270 | 27         | 0.380          | 0.66                           |
| SIQ63 - 330 | 33         | 0.450          | 0.59                           |
| SIQ63 - 390 | 39         | 0.490          | 0.54                           |
| SIQ63 - 470 | 47         | 0.690          | 0.50                           |
| SIQ63 - 560 | 56         | 0.780          | 0.46                           |
| SIQ63 - 680 | 68         | 1.070          | 0.42                           |
| SIQ63 - 820 | 82         | 1.210          | 0.38                           |
| SIQ63 - 101 | 100        | 1.390          | 0.34                           |
| SIQ63 - 121 | 120        | 1.900          | 0.31                           |
| SIQ63 - 151 | 150        | 2.180          | 0.28                           |
| SIQ63 - 181 | 180        | 2.770          | 0.26                           |
| SIQ63 - 221 | 220        | 3.120          | 0.23                           |
| SIQ63 - 271 | 270        | 4.380          | 0.22                           |
| SIQ63 - 331 | 330        | 4.940          | 0.19                           |



★ Tolerance of inductance

2.9~330uH±20%

★★ I<sub>RATED</sub>: rated current. ΔL<25%, ΔT<45°C at I<sub>RATED</sub>

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

★★★★ Test condition at 25°C: 2.9~5.5uH 100KHz, 0.1V 10~330uH 1KHz, 1V



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