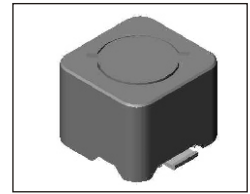


SMT Power Inductor

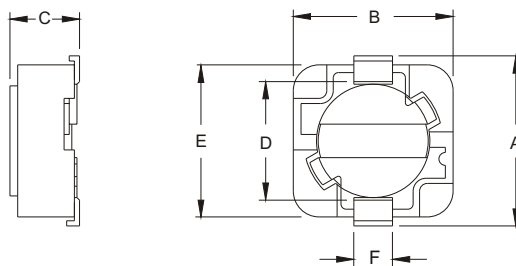
SIQ65 Type

Features

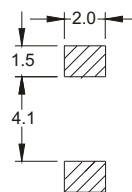
- RoHS compliant.
- Small size (6.2mm*6.6mm), low profile (5.0mm max. height) SMD type.
- Magnetically shielded, suitable for high density mounting.
- High energy storage and low DCR.
- Provided with embossed carrier tape packing.
- Ideal for power source circuits, DC-DC converter, DC-AC inverters inductor applications.
- In addition to the standard versions shown here, customized inductors are available to meet your exact requirements.



Mechanical Dimension:



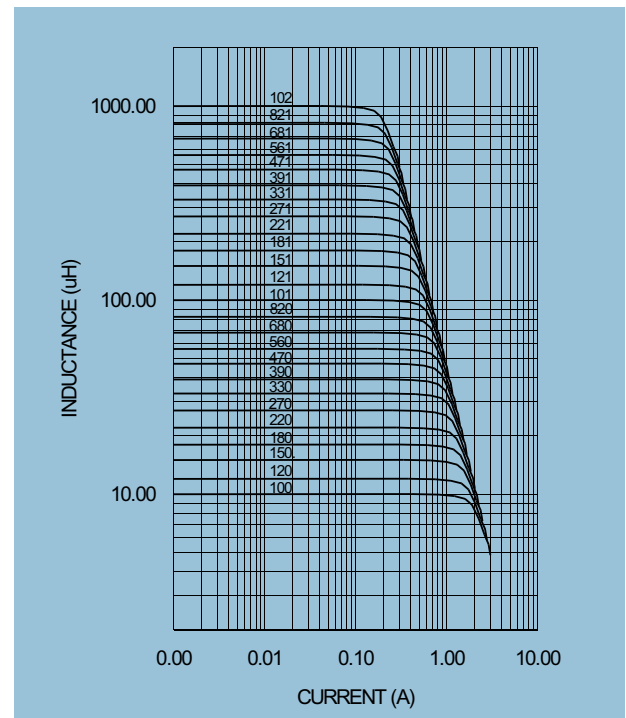
RECOMMENDED PAD PATTERNS



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 = $5.0 / 0.197$ 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, 1KHz, 1V

PART NO.	L^1 (μ H)	DCR (Ω) MAX	I_{rated}^2 (A dc)
SIQ65 - 100	10	0.12	1.35
SIQ65 - 120	12	0.13	1.22
SIQ65 - 150	15	0.18	1.11
SIQ65 - 180	18	0.24	1.02
SIQ65 - 220	22	0.27	0.91
SIQ65 - 270	27	0.30	0.82
SIQ65 - 330	33	0.33	0.74
SIQ65 - 390	39	0.37	0.69
SIQ65 - 470	47	0.52	0.62
SIQ65 - 560	56	0.56	0.58
SIQ65 - 680	68	0.63	0.51
SIQ65 - 820	82	0.71	0.46
SIQ65 - 101	100	1.03	0.42
SIQ65 - 121	120	1.15	0.38
SIQ65 - 151	150	1.68	0.35
SIQ65 - 181	180	1.87	0.32
SIQ65 - 221	220	2.08	0.29
SIQ65 - 271	270	2.37	0.26
SIQ65 - 331	330	2.67	0.23
SIQ65 - 391	390	2.94	0.22
SIQ65 - 471	470	3.93	0.20
SIQ65 - 561	560	5.43	0.18
SIQ65 - 681	680	7.32	0.17
SIQ65 - 821	820	8.24	0.15
SIQ65 - 102	1000	9.26	0.14



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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