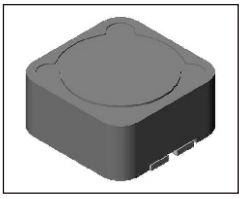
SMT Power Inductor

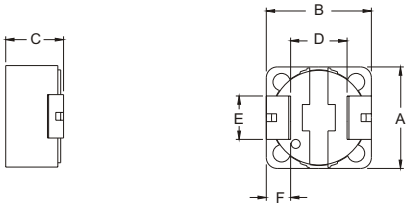
SIQ127RL Type

Features

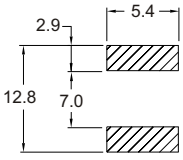
- RoHS compliant.
- Low profile(8.0mm max. height), high current(10A,1.2uH) SMD type.
- Magnetically shielded, suitable for high density mounting.
- High energy storage and low DCR.
- Provided with embossed carrier tape packing.
- Idel for power source circuits, DC-DC converter, DC-AC inverters inductor applications.
- In addition to the standard versions shown here, customized inductors are available to meet your exact requirements.



Mechanical Dimension :



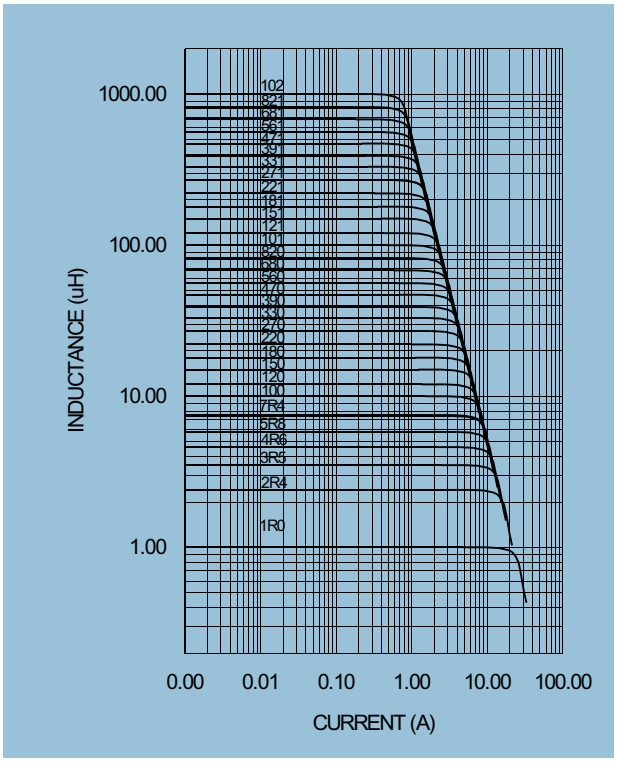
RECOMMENDED PAD PATTERNS



UNIT:mm/inch
A = 12.2±0.3 / 0.480 ± 0.012
B = 12.2±0.3 / 0.480± 0.012
C = 8.0 / 0.315 Max.
D = 7.6±0.3 / 0.299± 0.012
E = 5.0 / 0.197
F = 2.2/0.087

Electrical Characteristics : 25°C, 100KHz, 0.1V for 0.75~7.4uH. 1KHz, 1V for 10~1000uH.

PART NO.	L [1] (uH)	DCR (mΩ) MAX	Irated [2] (Adc)
SIQ127RL - R75	0.75	4.2	18.00
SIQ127RL - 1R0	1.00	6.5	14.00
SIQ127RL - 2R4	2.40	10.5	10.30
SIQ127RL - 3R5	3.50	12.4	9.30
SIQ127RL - 4R6	4.60	13.8	9.10
SIQ127RL - 5R8	5.80	16.2	8.60
SIQ127RL - 7R4	7.40	17.7	7.40
SIQ127RL - 100	10.00	19.5	6.70
SIQ127RL - 120	12.00	21.3	6.45
SIQ127RL - 150	15.00	26.4	5.65
SIQ127RL - 180	18.00	28.0	5.10
SIQ127RL - 220	22.00	36.4	4.70
SIQ127RL - 270	27.00	41.6	4.20
SIQ127RL - 330	33.00	53.3	3.90
SIQ127RL - 390	39.00	60.5	3.50
SIQ127RL - 470	47.00	78.0	3.25
SIQ127RL - 560	56.00	90.0	2.90
SIQ127RL - 680	68.00	120.0	2.60
SIQ127RL - 820	82.00	119.0	2.40
SIQ127RL - 101	100.00	151.0	2.10
SIQ127RL - 121	120.00	169.0	1.90
SIQ127RL - 151	150.00	227.0	1.80
SIQ127RL - 181	180.00	299.0	1.55
SIQ127RL - 221	220.00	338.0	1.45
SIQ127RL - 271	270.00	419.0	1.30
SIQ127RL - 331	330.00	471.0	1.20
SIQ127RL - 391	390.00	572.1	1.10
SIQ127RL - 471	470.00	741.0	1.00
SIQ127RL - 561	560.00	852.0	0.95
SIQ127RL - 681	680.00	1130.0	0.85
SIQ127RL - 821	820.00	1240.0	0.75
SIQ127RL - 102	1000.00	1500.0	0.70



1. Tolerance of inductance : +40%/-20% for 0.75~7.4uH, ±20% for 10~1000uH.
2. Irated is the DC current which cause the inductance drop less than 20% 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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