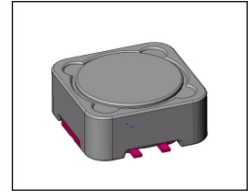


# SMT Power Inductor

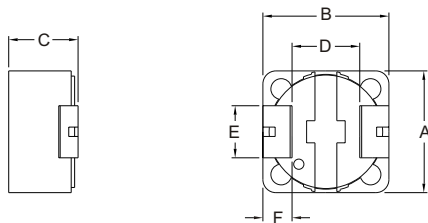
## SIQ1240R Type

### Features

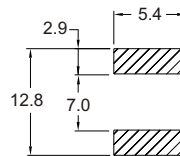
- RoHS compliant.
- High current (10A, 1.4uH), SMD type.
- Magnetically shielded, suitable for high density mounting.
- High energy storage and low DCR.
- Provided with embossed carrier tape packing.
- Ideal for power source circuits, DC-DC converter, DC-AC inverters inductor applications.
- In addition to the standard versions shown here, customized inductors are available to meet your exact requirements.



### Mechanical Dimension:



### RECOMMENDED PAD PATTERNS



UNIT:mm/inch

A = 12.2 ± 0.3 / 0.480 ± 0.012

B = 12.2 ± 0.3 / 0.480 ± 0.012

C = 4.0 / 0.157 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

PART NO.	L <sup>1</sup> (uH)	DCR (mΩ) MAX	I <sub>rated</sub> <sup>2</sup> (A dc)
SIQ1240R - 1R4	1.4	7.8	10.0
SIQ1240R - 4R7	4.7	22.0	5.1
SIQ1240R - 5R6	5.6	27.0	4.7
SIQ1240R - 100	10.0	46.0	3.5

1. Tolerance of inductance : ± 20%.
2. I<sub>rated</sub> 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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