

SMT Power Inductor

SIQ1210R Type

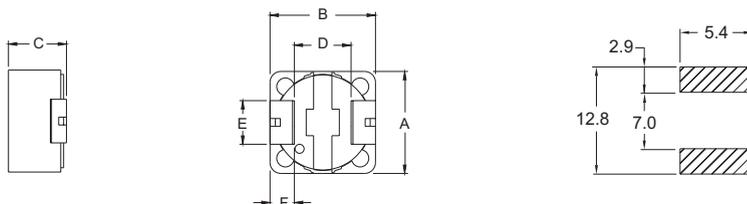
Features

- RoHS compliant.
- High current(21A, 1.3uH)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 = 10.0 / 0.394 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 ¹ (uH)	DCR (mΩ) MAX	I _{rated} ² (Adc)
SIQ1210R - 1R3	1.3	3.8	21.0
SIQ1210R - 2R0	2.0	4.4	18.0
SIQ1210R - 2R6	2.6	7.0	15.0
SIQ1210R - 3R6	3.6	7.5	12.5
SIQ1210R - 4R7	4.7	8.0	11.5
SIQ1210R - 5R8	5.8	10.0	10.5
SIQ1210R - 6R8	6.8	11.5	10.0
SIQ1210R - 120	12.0	18.5	7.6
SIQ1210R - 150	15.0	25.0	5.8
SIQ1210R - 850	85.0	130.0	2.8
SIQ1210R - 101	100.0	150.0	2.4
SIQ1210R - 151	150.0	220.0	2.0
SIQ1210R - 221	220.0	257.0	1.6

1. Tolerance of inductance : +40%/-20% for 1.3~6.8uH, ±20% for 12~220uH.
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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