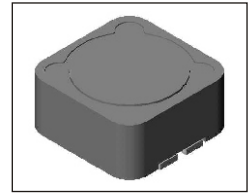


SMT Power Inductor

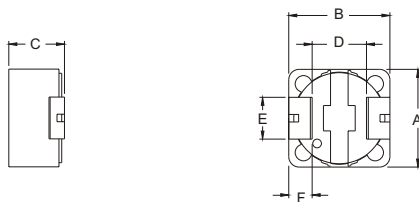
SIQ127R Type

Features

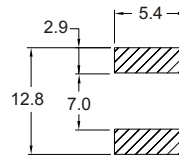
- RoHS compliant.
- Low profile(8.0mm max.height), high current(10A,1.2uH)SMD type.
- Magnetically shielded, suitable for high density mounting.
- High energy storage and low DCR.
- Provided with embossed carrier tape packing.
- Ideal for power source circuits, DC-DC converter, DC-AC inverters inductor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



Mechanical Dimension :



RECOMMENDED PAD



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.

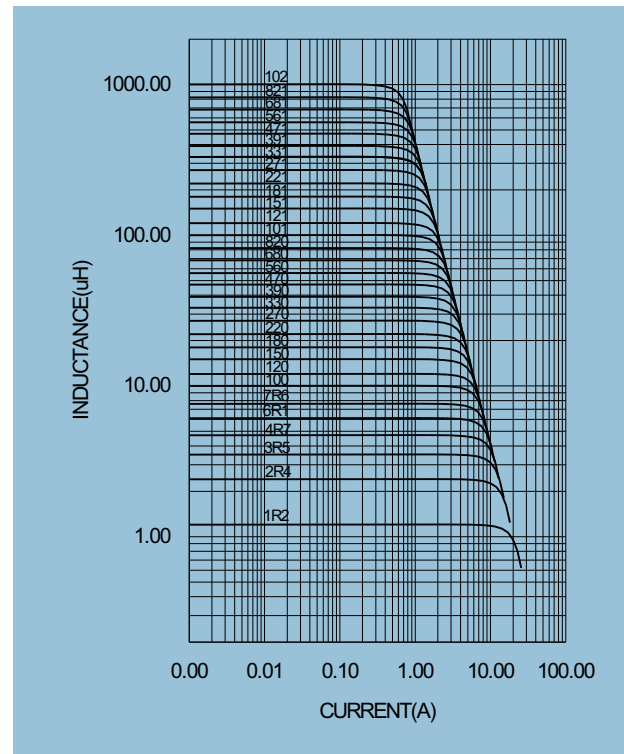
D = 7.6 ± 0.3 / 0.299 ± 0.012

E = 5.0 / 0.197

F = 2.2 / 0.087

Electrical Characteristics :At 25°C : 1.2~7.6uH 100KHz, 0.1V 10~1000uH 1KHz, 1V

PART NO.	L ¹ (uH)	DCR (mΩ) MAX	I _{rated} ² (A dc)
SIQ127R -1R2	1.2	7	10.00
SIQ127R -2R4	2.4	12	8.00
SIQ127R -3R5	3.5	14	7.50
SIQ127R -4R7	4.7	16	6.80
SIQ127R -6R1	6.1	18	6.60
SIQ127R -7R6	7.6	20	5.90
SIQ127R -100	10.0	22	5.40
SIQ127R -120	12.0	25	4.90
SIQ127R -150	15.0	27	4.50
SIQ127R -180	18.0	40	3.90
SIQ127R -220	22.0	44	3.60
SIQ127R -270	27.0	46	3.40
SIQ127R -330	33.0	65	3.00
SIQ127R -390	39.0	73	2.80
SIQ127R -470	47.0	100	2.50
SIQ127R -560	56.0	110	2.35
SIQ127R -680	68.0	140	2.10
SIQ127R -820	82.0	160	1.95
SIQ127R -101	100.0	220	1.70
SIQ127R -121	120.0	250	1.60
SIQ127R -151	150.0	280	1.42
SIQ127R -181	180.0	350	1.30
SIQ127R -221	220.0	390	1.16
SIQ127R -271	270.0	560	1.06
SIQ127R -331	330.0	640	0.95
SIQ127R -391	390.0	700	0.88
SIQ127R -471	470.0	980	0.79
SIQ127R -561	560.0	1070	0.73
SIQ127R -681	680.0	1460	0.67
SIQ127R -821	820.0	1640	0.60
SIQ127R -102	1000.0	1820	0.55



1. Tolerance of inductance : +40%/-20% for 1.2~7.6uH, 20% for 10~1000uH.
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).



DELTA ELECTRONICS, INC.

(TAOYUAN PLANT CPBG) 252, SAN YING ROAD, KUEISAN INDUSTRIAL ZONE, TAOYUAN SHIEN, 333, TAIWAN, R.O.C.

TEL: 886-3-3591968; FAX: 886-3-3591991

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