

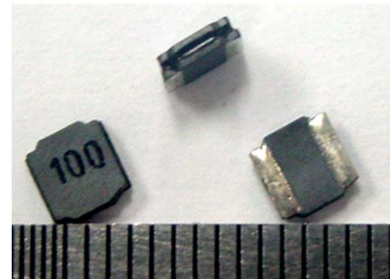


SLNR6312 Series



1. Features of SLNR6312 Series :

- Miniature SMD shielded power inductor.
- Low profile 1.2mm max height
- Inductance range of 2.50uH to 100.0uH.
- Ideal for DC to DC power converter application.
- Operating temperature range of -55.0 °C ~ +130.0°C.
- RoHS and HF compliant.
- Tape and Reel quantities: 1,000pcs, 7" Reel



2. Electrical Characteristics of SLNR6312 Series:

Part Number	OCL (uH) ± 20% or 30%	DCR (mΩ) ±20%	Isat (A) @25°C	Irms (A) @25°C	SRF (MHz) Min
SLNR6312-2R5NHF	2.5 , 30%	90.0	2.10	1.73	45
SLNR6312-4R0MHF	4.0 , 30%	105.0	1.80	1.57	39
SLNR6312-5R3MHF	5.3 , 20%	125.0	1.50	1.40	34
SLNR6312-6R8MHF	6.8 , 20%	165.0	1.30	1.18	30
SLNR6312-100MHF	10.0 , 20%	235.0	1.00	1.00	22
SLNR6312-150MHF	15.0 , 20%	330.0	0.80	0.79	18
SLNR6312-220MHF	22.0 , 20%	530.0	0.76	0.63	12
SLNR6312-330MHF	33.0 , 20%	700.0	0.59	0.53	8
SLNR6312-470MHF	47.0 , 20%	1050.0	0.52	0.46	6
SLNR6312-680MHF	68.0 , 20%	1350.0	0.44	0.41	3
SLNR6312-101MHF	100.0 , 20%	2180.0	0.35	0.32	1

3. Mechanical Dimensions (unit : mm):

A	B	C	D	E
±0.3	±0.3	Max.	±0.3	±0.3
6.0	6.0	1.2	1.55	2.9

Third Angle Projection:

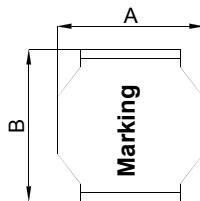


Part Marking:

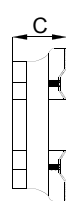
xx is inductance value in uH(R:decimal point),

x is special code

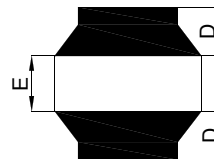
YYWW: Date Code



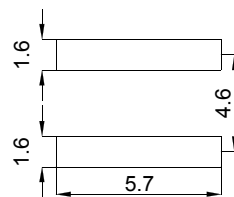
TOP VIEW



SIDE VIEW



BOTTOM VIEW



PCB Layout

Test Condition:

1. Open circuit inductance (OCL) and L@Isat test condition: 100Khz, 1.0V, (Ta=25°C)
2. Isat: DC current that causes inductance to drop by approximately 30% from OCL ; (Ta=25°C)
3. Irms: DC current that causes an approximate temperature rise (ΔT) of 40°C ; (Ta=25°C)

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*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.