

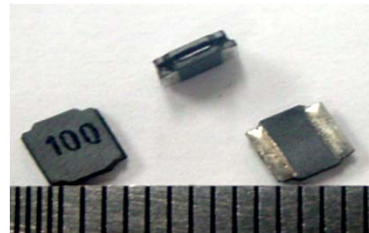


SLNR4312 Series



1. Features of SLNR4312 Series :

- Miniature SMD shielded power inductor.
- Low profile 1.2mm max height
- Inductance range of 0.82uH 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: 4,500pcs, 13" Reel



2. Electrical Characteristics of SLNR4312 Series:

Part Number	OCL (uH) 20% or 30%	DCR (mΩ) ±30%	Isat (A) @25°C	Irms (A) @25°C	SRF (MHz)
SLNR4312-R82NHF	0.82 , 30%	50.0	3.53	1.65	150.0
SLNR4312-1R0NHF	1.00 , 30%	50.0	2.61	1.65	131.0
SLNR4312-1R2NHF	1.20 , 30%	65.0	2.83	1.46	100.0
SLNR4312-1R5NHF	1.50 , 30%	65.0	2.10	1.46	90.0
SLNR4312-1R8NHF	1.80 , 30%	80.0	2.47	1.32	88.0
SLNR4312-2R2NHF	2.20 , 30%	80.0	1.76	1.32	74.0
SLNR4312-2R7NHF	2.70 , 30%	90.0	1.90	1.25	71.0
SLNR4312-3R3NHF	3.30 , 30%	90.0	1.25	1.25	60.0
SLNR4312-3R6NHF	3.60 , 30%	110.0	1.20	1.12	57.0
SLNR4312-4R3NHF	4.30 , 30%	140.0	1.75	1.00	54.0
SLNR4312-4R7NHF	4.70 , 30%	125.0	1.15	1.05	50.0
SLNR4312-5R1NHF	5.10 , 30%	155.0	1.55	0.95	50.0
SLNR4312-5R6NHF	5.60 , 30%	140.0	1.00	1.00	42.0
SLNR4312-6R8NHF	6.80 , 30%	155.0	0.95	0.95	40.0
SLNR4312-100MHF	10.00 , 20%	240.0	0.80	0.77	33.0
SLNR4312-120MHF	12.00 , 20%	290.0	0.66	0.70	32.0
SLNR4312-150MHF	15.00 , 20%	340.0	0.56	0.64	25.0
SLNR4312-180MHF	18.00 , 20%	470.0	0.55	0.55	23.0
SLNR4312-220MHF	22.00 , 20%	470.0	0.54	0.55	20.0
SLNR4312-270MHF	27.00 , 20%	720.0	0.50	0.45	18.0
SLNR4312-330MHF	33.00 , 20%	810.0	0.42	0.42	17.0
SLNR4312-360MHF	36.00 , 20%	900.0	0.40	0.40	14.0
SLNR4312-390MHF	39.00 , 20%	1100.0	0.55	0.37	16.0
SLNR4312-470MHF	47.00 , 20%	1000.0	0.35	0.37	12.0
SLNR4312-560MHF	56.00 , 20%	1250.0	0.33	0.33	11.0
SLNR4312-680MHF	68.00 , 20%	1460.0	0.30	0.31	11.0
SLNR4312-820MHF	82.00 , 20%	2140.0	0.28	0.26	11.0
SLNR4312-101MHF	100.00 , 20%	2210.0	0.25	0.25	9.4

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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.*



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3. Mechanical Dimensions (unit : mm):

A	B	C	D	E
±0.3	±0.3	Max.	±0.3	±0.3
4.0	4.0	1.2	0.95	2.1

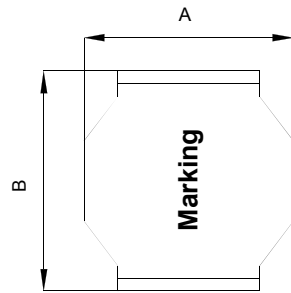
Third Angle Projection:

Part Marking:

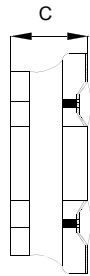
xx is inductance value in uH(R:decimal point),

x is special code

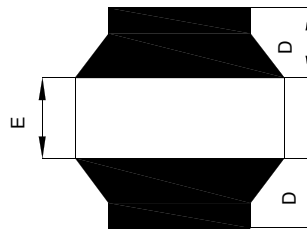
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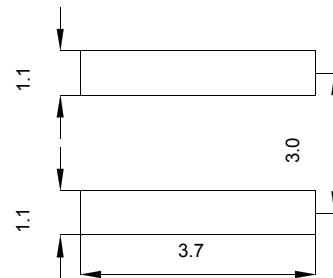
TOP VIEW



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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