



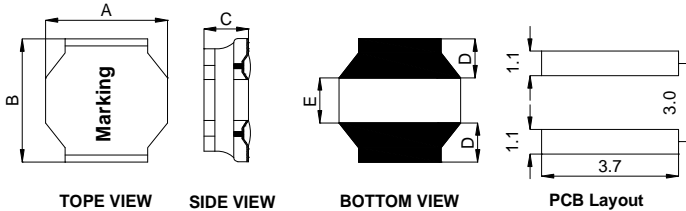
SLNR4312 Series



1. Features:

- Miniature SMD Shielded Power Inductor in a 4.3*4.3mm foot print;
- 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 -55°C to + 130°C , RoHs compliance ;
- T & R Qty: 4500 pcs , 13" Reel ;

2. Mechanical Dimension(Unit:mm):



Type	SLNR4312
A	4.0 ± 0.3
B	4.0 ± 0.3
C	1.2 (Max.)
D	0.95 ± 0.3
E	2.1 ± 0.3

3. Electrical Characteristic of SLNR4312 Series:

Part Number	OCL (uH) 20% or 30%	DCR (mΩ) +30%	Isat (A) @25°C	Irms (A) @25°C	SRF (MHz) min.	Marking
SLNR4312-R82NHF	0.82 , 30%	50.0	3.53	1.65	150	R82
SLNR4312-1R0NHF	1.0 , 30%	50.0	2.61	1.65	131	1R0
SLNR4312-1R2NHF	1.2 , 30%	65.0	2.83	1.46	100	1R2
SLNR4312-1R5NHF	1.5 , 30%	65.0	2.10	1.46	90	1R5
SLNR4312-1R8NHF	1.8 , 30%	80.0	2.47	1.32	88	1R8
SLNR4312-2R2NHF	2.2 , 30%	80.0	1.76	1.32	74	2R2
SLNR4312-2R7NHF	2.7 , 30%	90.0	1.90	1.25	71	2R7
SLNR4312-3R3NHF	3.3 , 30%	90.0	1.25	1.25	60	3R3
SLNR4312-3R6NHF	3.6 , 30%	110.0	1.20	1.12	57	3R6
SLNR4312-4R3NHF	4.3 , 30%	140.0	1.75	1.00	54	4R3
SLNR4312-4R7NHF	4.7 , 30%	125.0	1.15	1.05	50	4R7
SLNR4312-5R1NHF	5.1 , 30%	155.0	1.55	0.95	50	5R1
SLNR4312-5R6NHF	5.6 , 30%	140.0	1.00	1.00	42	5R6
SLNR4312-6R8NHF	6.8 , 30%	155.0	0.95	0.95	40	6R8
SLNR4312-100MHF	10.0 , 20%	240.0	0.80	0.77	33	100
SLNR4312-120MHF	12.0 , 20%	290.0	0.66	0.70	32	120
SLNR4312-150MHF	15.0 , 20%	340.0	0.56	0.64	25	150
SLNR4312-180MHF	18.0 , 20%	470.0	0.55	0.55	23	180
SLNR4312-220MHF	22.0 , 20%	470.0	0.54	0.55	20	220
SLNR4312-270MHF	27.0 , 20%	720.0	0.50	0.45	18	270
SLNR4312-330MHF	33.0 , 20%	810.0	0.42	0.42	17	330
SLNR4312-360MHF	36.0 , 20%	900.0	0.40	0.40	14	360
SLNR4312-390MHF	39.0 , 20%	1100.0	0.55	0.37	16	390
SLNR4312-470MHF	47.0 , 20%	1000.0	0.35	0.37	12	470
SLNR4312-560MHF	56.0 , 20%	1250.0	0.33	0.33	11	560
SLNR4312-680MHF	68.0 , 20%	1460.0	0.30	0.31	11	680
SLNR4312-820MHF	82.0 , 20%	2140.0	0.28	0.26	11	820
SLNR4312-101MHF	100.0 , 20%	2210.0	0.25	0.25	9.4	101

Note:

- 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);