

SMD Power Inductors

Features

- High permissible DC current and low DC resistance in compact size.
- Flat top reliable pick and place handling.
- Routing temperature deflection, suitable for reflow soldering.
- Available in embossed tape and reel packing.



Applications

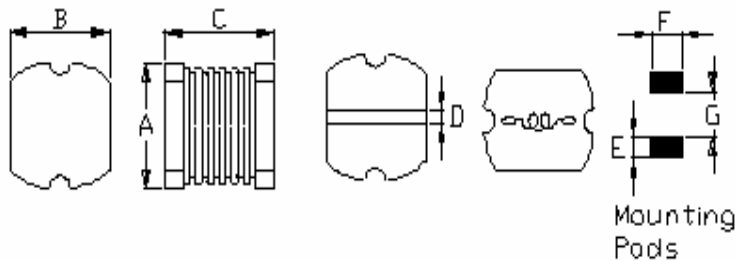
- Step-up or Step-down converters
- Digital Camcorders
- Car navigation systems, PDAs and others handheld electronic devices

Part Number Systems

SI - 0312 - 3R3 - M - LF
 (1) (2) (3) (4) (5)

(1)	Product series	(2)	Size: 0312
(3)	Inductance Value: 3R3 = 3.3uH	(4)	Inductance Tolerance: M = ± 20%, L = ±15%, K = ± 10%
(5)	ROHs Compliant		

Shape And Dimensions



Unit: mm

Type	A	B	C (Max)	D Ref.	E Ref.	F Ref	G Ref.
0312	3.5 ± 0.3	3.0 ± 0.3	1.2 ± 0.3	0.8	1.20	3.2	1.2

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SI-0312-Series		ELECTRICAL CHARACTERISTICS			
Part Number	Inductance (uH)	Tolerance	L Test Frequency	Rdc (Ω) Max	Idc (A) Max
SI-0312-1R0M-LF	1.0	M	100KHZ	0.060	1.40
SI-0312-1R4M-LF	1.4	M	100KHZ	0.069	1.40
SI-0312-1R5M-LF	1.5	M	100KHZ	0.081	1.30
SI-0312-1R8M-LF	1.8	M	100KHZ	0.098	1.24
SI-0312-2R2M-LF	2.2	M	100KHZ	0.110	1.05
SI-0312-2R7M-LF	2.7	M	100KHZ	0.135	1.04
SI-0312-3R3M-LF	3.3	M	100KHZ	0.150	0.80
SI-0312-3R9M-LF	3.9	M	100KHZ	0.188	0.89
SI-0312-4R7M-LF	4.7	M	100KHZ	0.210	0.75
SI-0312-5R6M-LF	5.6	M	100KHZ	0.250	0.65
SI-0312-6R8M-LF	6.8	M	100KHZ	0.300	0.56
SI-0312-8R2M-LF	8.2	M	100KHZ	0.038	0.50
SI-0312-100M/K-LF	10	M, K	1KHZ	0.440	0.45
SI-0312-120M/K-LF	12	M, K	1KHZ	0.500	0.43
SI-0312-150M/K-LF	15	M, K	1KHZ	0.610	0.39
SI-0312-180M/K-LF	18	M, K	1KHZ	0.730	0.32
SI-0312-220M/K-LF	22	M, K	1KHZ	0.910	0.28
SI-0312-270M/K-LF	27	M, K	1KHZ	1.150	0.26
SI-0312-330M/K-LF	33	M, K	1KHZ	1.390	0.25
SI-0312-390M/K-LF	39	M, K	1KHZ	1.880	0.23
SI-0312-470M/K-LF	47	M, K	1KHZ	2.260	0.21
SI-0312-560M/K-LF	56	M, K	1KHZ	2.690	0.20
SI-0312-680M/K-LF	68	M, K	1KHZ	3.180	0.18
SI-0312-820M/K-LF	82	M, K	1KHZ	3.670	0.16
SI-0312-101M/K-LF	100	M, K	1KHZ	4.940	0.14
SI-0312-121M/K-LF	120	M, K	1KHZ	5.350	0.12
Notes: No marking on the inductor due to the size of the inductor are too small to accommodate					

* All specifications are subjected to change without prior notice.