

# 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

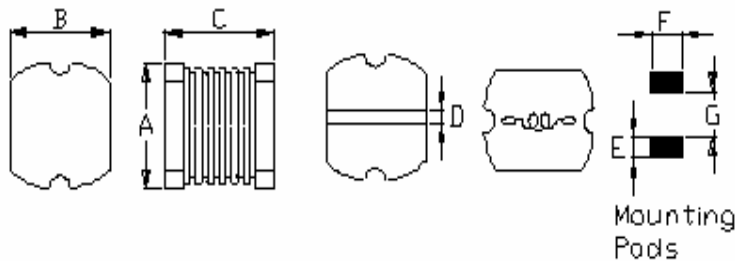
## Part Number Systems

**SI - 0504 - 100 - M - LF**

(1) (2) (3) (4) (5)

(1)	Product series	(2)	Size: 0504
(3)	Inductance Value: 100 = 10uH	(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.
0504	5.8 ± 0.3	5.2 ± 0.3	4.5 ± 0.4	1.3	2.25	5.5	1.5

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SI-0504-Series		ELECTRICAL CHARACTERISTICS			
Part Number	Inductance (uH)	Tolerance	L Test Frequency	Rdc (Ω) Max	Idc (A) Max
SI-0504-100M-LF	10	M	2.52MHZ	0.100	1.44
SI-0504-120M-LF	12	M	2.52MHZ	0.120	1.40
SI-0504-150M-LF	15	M	2.52MHZ	0.140	1.30
SI-0504-180M-LF	18	M	2.52MHZ	0.150	1.23
SI-0504-220M-LF	22	M	2.52MHZ	0.180	1.11
SI-0504-270M-LF	27	M	2.52MHZ	0.200	0.97
SI-0504-330L-LF	33	L	2.52MHZ	0.230	0.88
SI-0504-390L-LF	39	L	2.52MHZ	0.320	0.80
SI-0504-470L-LF	47	L	2.52MHZ	0.370	0.72
SI-0504-560K-LF	56	K	2.52MHZ	0.420	0.68
SI-0504-680K-LF	68	K	2.52MHZ	0.460	0.61
SI-0504-820K-LF	82	K	2.52MHZ	0.600	0.58
SI-0504-101K-LF	100	K	1KHZ	0.700	0.52
SI-0504-121K-LF	120	K	1KHZ	0.930	0.48
SI-0504-151K-LF	150	K	1KHZ	1.100	0.40
SI-0504-181K-LF	180	K	1KHZ	1.380	0.38
SI-0504-221K-LF	220	K	1KHZ	1.570	0.35

\* All specifications are subjected to change without prior notice.