

# 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

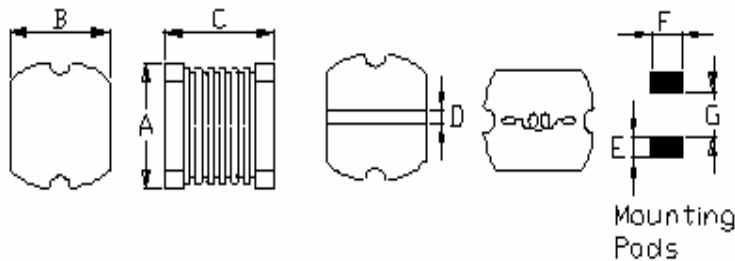
## Part Number Systems

**SI - 1005 - 100 - M - LF**

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

(1)	Product series	(2)	Size: 1005
(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.
1005	10 ± 0.3	9.0 ± 0.3	5.4±0.3	2.9	3.75	9.5	2.5

## SMD Power Inductors

SI-1005-Series		ELECTRICAL CHARACTERISTICS			
Part Number	Inductance (uH)	Tolerance	L Test Frequency	Rdc (Ω) Max	Idc (A) Max
SI-1005-100M-LF	10	M	2.52MHZ	0.060	2.60
SI-1005-120M-LF	12	M	2.52MHZ	0.070	2.45
SI-1005-150M-LF	15	M	2.52MHZ	0.080	2.27
SI-1005-180M-LF	18	M	2.52MHZ	0.090	2.15
SI-1005-220M-LF	22	M	2.52MHZ	0.100	1.95
SI-1005-270M-LF	27	M	2.52MHZ	0.120	1.76
SI-1005-330M-LF	33	M	2.52MHZ	0.110	1.50
SI-1005-390M-LF	39	M	2.52MHZ	0.140	1.37
SI-1005-470K-LF	47	K	2.52MHZ	0.170	1.28
SI-1005-560K-LF	56	K	2.52MHZ	0.190	1.17
SI-1005-680K-LF	68	K	2.52MHZ	0.220	1.11
SI-1005-820K-LF	82	K	2.52MHZ	0.250	1.00
SI-1005-101K-LF	100	K	1KHZ	0.350	0.97
SI-1005-121K-LF	120	K	1KHZ	0.400	0.89
SI-1005-151K-LF	150	K	1KHZ	0.470	0.78
SI-1005-181K-LF	180	K	1KHZ	0.630	0.72
SI-1005-221K-LF	220	K	1KHZ	0.730	0.66
SI-1005-271K-LF	270	K	1KHZ	0.970	0.57
SI-1005-331K-LF	330	K	1KHZ	1.150	0.52
SI-1005-391K-LF	390	K	1KHZ	1.300	0.48
SI-1005-471K-LF	470	K	1KHZ	1.480	0.42
SI-1005-561K-LF	560	K	1KHZ	1.900	0.33
SI-1005-681K-LF	680	K	1KHZ	2.250	0.28
SI-1005-821K-LF	820	K	1KHZ	2.550	0.24
Note: 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.