

# SMD Power Inductors

## Features

- High permissible DC current and low DC resistance in compact size.
- Flat top reliable pick and place handling.
- Roasting 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

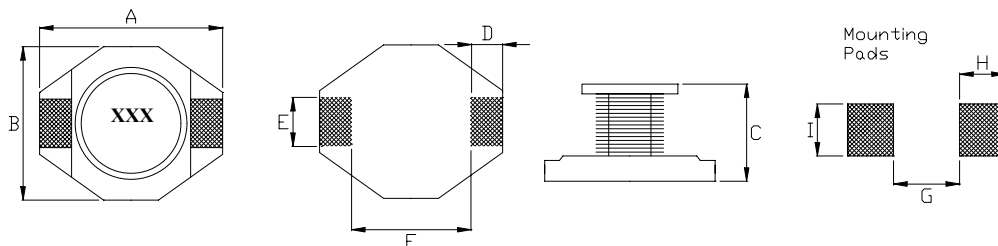
## Part Number Systems

**SIP - 1305 - 1R0 - M - LF**

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

(1)	Product series	(2)	Size: 1305
(3)	Inductance Value: 1R0 = 1 uH	(4)	Inductance Tolerance: M = ± 20%, L = ± 15%, K = ± 10%
(5)	ROHs Compliant		

## Shape And Dimensions



Unit: mm

Type	A (Max)	B (Max)	C (Max)	D Ref.	E Ref.	F Ref.	G Ref.	H Ref.	I Ref.
1305	13.50	9.50	5.50	2.54	2.54	8.00	7.37	3.00	2.79

## SMD Power Inductors

SIP-1305-Series		ELECTRICAL CHARACTERISTICS					
Part Number	Inductance ( $\mu$ H)	Tolerance	L Test Frequency	SRF (MHz) Typ.	Rdc (A) Max	Isat <sup>2</sup> (A)	Irms <sup>3</sup> (A)
SIP-1305-1R0M-LF	1.0	M	100KHz	100	0.009	9.0	6.8
SIP-1305-1R5M-LF	1.5	M	100KHz	90	0.010	8.0	6.4
SIP-1305-2R2M-LF	2.2	M	100KHz	80	0.012	7.0	6.1
SIP-1305-3R3M-LF	3.3	M	100KHz	65	0.015	6.4	5.4
SIP-1305-4R7M-LF	4.7	M	100KHz	45	0.018	5.4	4.8
SIP-1305-6R8M-LF	6.8	M	100KHz	38	0.027	4.6	4.4
SIP-1305-100M-LF	10	M	100KHz	30	0.038	3.8	3.9
SIP-1305-150M-LF	15	M	100KHz	27	0.046	3.0	3.1
SIP-1305-220M-LF	22	M	100KHz	19	0.085	2.6	2.7
SIP-1305-330M-LF	33	M	100KHz	15	0.10	2.0	2.1
SIP-1305-470M-LF	47	M	100KHz	12	0.14	1.6	1.8
SIP-1305-680M-LF	68	M	100KHz	10	0.20	1.4	1.5
SIP-1305-101M-LF	100	M	100KHz	9.0	0.28	1.2	1.3
SIP-1305-151M-LF	150	M	100KHz	6.0	0.40	1.0	1.0
SIP-1305-221M-LF	220	M	100KHz	5.0	0.61	0.8	0.8
SIP-1305-331M-LF	330	M	100KHz	4.5	1.02	0.6	0.6
SIP-1305-471M-LF	470	M	100KHz	3.5	1.27	0.5	0.5
SIP-1305-681M-LF	680	M	100KHz	2.5	2.02	0.4	0.4
SIP-1305-102M-LF	1000	M	100KHz	2.0	3.00	0.3	0.3

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