

# 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

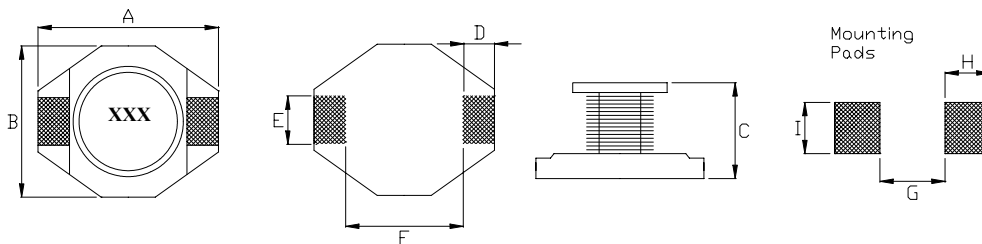
## Part Number Systems

**SIP - 1807 - 1R0 - M - LF**

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

(1)	Product series	(2)	Size: 1807
(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.
1807	18.80	15.50	7.20	2.54	2.54	13.50	12.45	3.00	2.79

## SMD Power Inductors

SIP-1807-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-1807-1R0M-LF	1.0	M	100KHz	80	0.009	20	8.6
SIP-1807-2R2M-LF	2.2	M	100KHz	80	0.014	16	7.1
SIP-1807-3R3M-LF	3.3	M	100KHz	60	0.018	14	6.2
SIP-1807-5R6M-LF	5.6	M	100KHz	40	0.020	12	5.3
SIP-1807-100M-LF	10	M	100KHz	30	0.031	10	4.3
SIP-1807-150M-LF	15	M	100KHz	22	0.036	8.0	4.0
SIP-1807-220M-LF	22	M	100KHz	20	0.047	7.0	3.5
SIP-1807-330M-LF	33	M	100KHz	15	0.066	5.5	3.0
SIP-1807-470M-LF	47	M	100KHz	9.0	0.086	4.5	2.6
SIP-1807-680M-LF	68	M	100KHz	8.0	0.130	3.5	2.3
SIP-1807-101M-LF	100	M	100KHz	7.0	0.190	3.0	1.8
SIP-1807-151M-LF	150	M	100KHz	6.0	0.250	2.6	1.5
SIP-1807-221M-LF	220	M	100KHz	5.0	0.380	2.4	1.2
SIP-1807-331M-LF	330	M	100KHz	4.0	0.560	1.9	1.0
SIP-1807-471M-LF	470	M	100KHz	3.0	0.850	1.4	0.82
SIP-1807-681M-LF	680	M	100KHz	2.5	1.100	1.2	0.72
SIP-1807-102M-LF	1000	M	100KHz	2.0	1.800	1.0	0.56

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