

# 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

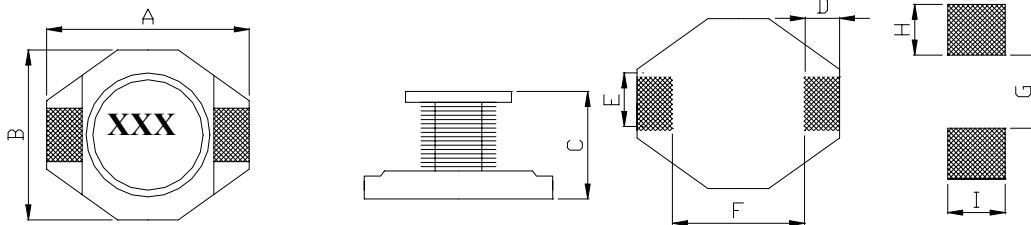
## Part Number Systems

**SIW - 0603 - 331 - M - LF**

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

(1)	Product series	(2)	Size: 0603
(3)	Inductance Value: 331 = 330uH	(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.
0603	6.60	4.45	2.92	0.76	1.27	4.83	4.57	1.14	3.05

## SMD Power Inductors

SIW-0603-Series		ELECTRICAL CHARACTERISTICS					
Part Number	Inductance ( $\mu$ H)	Tolerance	L Test Frequency	SRF (MHz) Typ.	Rdc ( $\Omega$ ) Max	Isat <sup>2</sup> (A)	Irms <sup>3</sup> (A)
SIW-0603-1R0M-LF	1.0	M	100KHz	130	0.05	2.90	2.90
SIW-0603-1R5M-LF	1.5	M	100KHz	115	0.05	2.60	2.80
SIW-0603-2R2M-LF	2.2	M	100KHz	90	0.07	2.30	2.40
SIW-0603-3R3M-LF	3.3	M	100KHz	70	0.08	2.00	2.00
SIW-0603-4R7M-LF	4.7	M	100KHz	50	0.09	1.50	1.50
SIW-0603-6R8M-LF	6.8	M	100KHz	45	0.13	1.20	1.40
SIW-0603-100M-LF	10	M	100KHz	35	0.16	1.10	1.10
SIW-0603-150M-LF	15	M	100KHz	30	0.23	0.90	1.20
SIW-0603-220M-LF	22	M	100KHz	20	0.37	0.70	0.80
SIW-0603-330M-LF	33	M	100KHz	15	0.51	0.58	0.60
SIW-0603-470M-LF	47	M	100KHz	14	0.64	0.50	0.50
SIW-0603-680M-LF	68	M	100KHz	11	0.86	0.40	0.40
SIW-0603-101M-LF	100	M	100KHz	9.0	1.27	0.31	0.30
SIW-0603-151M-LF	150	M	100KHz	6.0	2.00	0.27	0.25
SIW-0603-221M-LF	220	M	100KHz	5.5	3.11	0.22	0.20
SIW-0603-331M-LF	330	M	100KHz	5.0	3.80	0.18	0.16
SIW-0603-471M-LF	470	M	100KHz	4.0	5.06	0.06	0.15
SIW-0603-681M-LF	680	M	100KHz	3.0	9.2	0.1	0.12
SIW-0603-102M-LF	1000	M	100KHz	2.0	13.8	0.1	0.07

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