High Frequency Winding Type Chip Inductor SWI0603F-SERIES

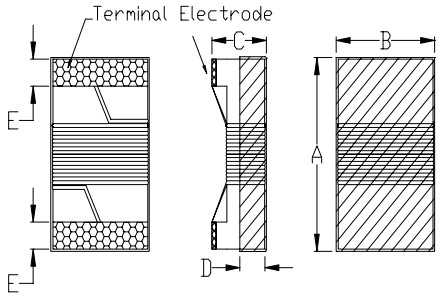
1. Features

1.Ceramic core wire wound construction.
2.No batch to batch variations in inductance, SRF and Q that are present in ferrite inductors.
3.High Reliability due to ceramic wire wound construction.
4.High frequency application.
5.Small footprint as well as low profile.
6.100% Lead(Pb) & Halogen-Free and RoHS compliant.

Halogen-free

Pb-free

2. Dimensions



Size	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
SWI0603	1.80 max.	1.20 max.	1.20 max.	0.38 ref.	0.35±0.1

Unit:mm

3. Part Numbering

SWI	0603	F	-	2N0	S
A	B	C		D	E

A: Series
B: Dimension LxW
C: Lead free type
D: Inductance 2N0=2.0nH
E: Inductance Tolerance C=±0.2nH , S=±0.3nH , J=±5% , K=±10%

4. Specification

Part Number	Inductance (nH)	Tolerance	Test Frequency (Hz)	Q @ 250MHz min.	Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
SWI0603F-2N0□	2.0	C,S	0.1V/250M	13	700	0.07	8000
SWI0603F-3N9□	3.9	C,S	0.1V/250M	22	700	0.07	6900
SWI0603F-4N7□	4.7	C,S	0.1V/250M	20	700	0.12	5800
SWI0603F-6N8□	6.8	C,J,K	0.1V/250M	27	700	0.08	5800
SWI0603F-8N2□	8.2	C,J,K	0.1V/250M	30	700	0.13	4200
SWI0603F-10N□	10	J,K	0.1V/250M	31	700	0.13	4800
SWI0603F-12N□	12	J,K	0.1V/250M	35	700	0.13	4000
SWI0603F-15N□	15	J,K	0.1V/250M	35	700	0.13	4000
SWI0603F-18N□	18	J,K	0.1V/250M	35	700	0.16	3100

Part Number	Inductance (nH)	Tolerance	Test Frequency (Hz)	Q @ 250MHz min.	Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
SWI0603F-22N□	22	J,K	0.1V/250M	38	700	0.23	3000
SWI0603F-24N□	24	J,K	0.1V/250M	38	700	0.13	2800
SWI0603F-27N□	27	J,K	0.1V/250M	40	600	0.14	2800
SWI0603F-33N□	33	J,K	0.1V/250M	40	600	0.22	2300
SWI0603F-39N□	39	J,K	0.1V/250M	40	600	0.30	2200
SWI0603F-47N□	47	J,K	0.1V/200M	38	600	0.35	2000
SWI0603F-56N□	56	J,K	0.1V/200M	38	600	0.37	1900
SWI0603F-68N□	68	J,K	0.1V/200M	37	600	0.43	1700
SWI0603F-72N□	72	J,K	0.1V/150M	34	400	0.42	1700
SWI0603F-82N□	82	J,K	0.1V/150M	34	400	0.71	1700
SWI0603F-R10□	100	J,K	0.1V/150M	34	400	0.78	1400
SWI0603F-R12□	120	J,K	0.1V/150M	32	300	0.84	1300
SWI0603F-R15□	150	J,K	0.1V/150M	28	280	0.96	990
SWI0603F-R18□	180	J,K	0.1V/100M	25	240	1.52	990
SWI0603F-R22□	220	J,K	0.1V/100M	25	200	2.02	900
SWI0603F-R27□	270	J,K	0.1V/100M	24	170	2.36	900
SWI0603F-R33□	330	J,K	0.1V/100M	24	185	3.40	700
SWI0603F-R39□	390	J,K	0.1V/100M	24	100	3.60	900