

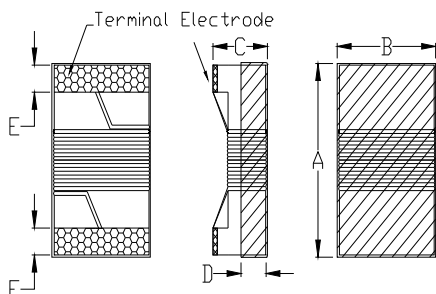
High Frequency Winding Type Chip Inductor SWC63I-SERIES

1. Features

1. Ceramic core wire wound construction.
2. No batch to batch variations in inductance
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.
7. Operating temperature-40~+125°C (Including self - temperature rise)



2. Dimensions



Size	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
SWC63I	1.80 max.	1.20 max.	1.20 max.	0.38 ref.	0.35±0.1

Unit:mm

3. Part Numbering



- A: Series
- B: Dimension LxW
- C: Lead free type
- D: Inductance 33N=33nH
- E: Inductance Tolerance C=±0.2nH , S=±0.3nH , J=±5% , K=±10%
- F: Control S/N

4. Specification

Part Number	Inductance (nH)	Tolerance	Test Frequency (Hz)	Q @ 250MHz min.	Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
SWC63I-2N0□A	2.0	C,S	0.1V/250M	13	700	0.07	8000
SWC63I-3N9□A	3.9	C,S	0.1V/250M	22	700	0.07	6900
SWC63I-4N7□A	4.7	C,K	0.1V/250M	20	700	0.12	5800
SWC63I-6N8□A	6.8	C,J,K	0.1V/250M	27	700	0.08	5800
SWC63I-8N2□A	8.2	C,J,K	0.1V/250M	30	700	0.13	4200
SWC63I-10N□A	10	J,K	0.1V/250M	31	700	0.13	4800
SWC63I-12N□A	12	J,K	0.1V/250M	35	700	0.13	4000
SWC63I-15N□A	15	J,K	0.1V/250M	35	700	0.13	4000
SWC63I-18N□A	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.
SWC63I-22N□A	22	J,K	0.1V/250M	38	700	0.23	3000
SWC63I-24N□A	24	J,K	0.1V/250M	38	700	0.13	2800
SWC63I-27N□A	27	J,K	0.1V/250M	40	600	0.14	2800
SWC63I-33N□A	33	J,K	0.1V/250M	40	600	0.22	2300
SWC63I-39N□A	39	J,K	0.1V/250M	40	600	0.30	2200
SWC63I-47N□A	47	J,K	0.1V/200M	38	600	0.35	2000
SWC63I-56N□A	56	J,K	0.1V/200M	38	600	0.37	1900
SWC63I-68N□A	68	J,K	0.1V/200M	37	600	0.43	1700
SWC63I-72N□A	72	J,K	0.1V/150M	34	400	0.42	1700
SWC63I-82N□A	82	J,K	0.1V/150M	34	400	0.71	1700
SWC63I-R10□A	100	J,K	0.1V/150M	34	400	0.78	1400
SWC63I-R12□A	120	J,K	0.1V/150M	32	300	0.84	1300
SWC63I-R15□A	150	J,K	0.1V/150M	28	280	0.96	990
SWC63I-R18□A	180	J,K	0.1V/100M	25	240	1.52	990
SWC63I-R22□A	220	J,K	0.1V/100M	25	200	2.02	900
SWC63I-R27□A	270	J,K	0.1V/100M	24	170	2.36	900
SWC63I-R33□A	330	J,K	0.1V/100M	24	185	3.40	700
SWC63I-R39□A	390	J,K	0.1V/100M	24	100	3.60	900

5. Recommended PC Board Patte

Chip size							Land Patterns For Reflow Soldering		
Series	Type	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	L(mm)	G(mm)	H(mm)
SWC	63I	1.80max	1.20max	1.20max	0.38 ref	0.35±0.1	1.92	0.90	1.02

