

Winding Type Chip Inductor

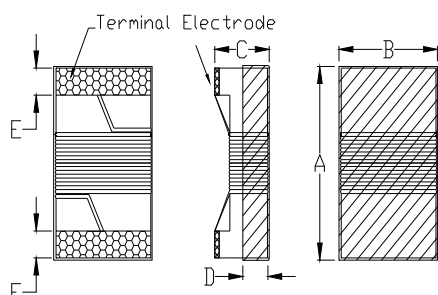
SWC42I-SERIES

1. Features

1. Ferrite core wire wound construction.
2. High Reliability due to wire wound type construction.
3. Small footprint as well as low profile.
4. Application for DC power line.
5. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
6. Operating temperature -40~+125°C (Including self - temperature rise)



2. Dimensions



Size	A	B	C	D	E
SWC42I	1.09±0.1	0.60±0.1	0.56±0.1	0.20±0.15	0.23±0.1

Unit:mm

3. Part Numbering



A: Series

B: Dimension

C: Lead free type

D: Inductance

E: Inductance Tolerance

F: Control S/N

L x W

47N=0.047 nH

S=±0.3nH, J=±5%; K=±10%

4. Specification

Part Number	Inductance (nH)	Tolerance	Q min.	Test Frequency (Hz)	Rated Current (mA) max..	DCR (Ω) max.	SRF (GHz) min.
SWC42I-1N0□A	1.0	S,J	16	0.1V/250M	1360	0.045	12.7
SWC42I-1N9□A	1.9	S,J	16	0.1V/250M	1040	0.070	11.30
SWC42I-2N0□A	2.0	S,J	16	0.1V/250M	1040	0.070	11.10
SWC42I-2N2□A	2.2	S,J	19	0.1V/250M	960	0.070	10.80
SWC42I-2N4□A	2.4	S,J	15	0.1V/250M	790	0.068	10.50
SWC42I-2N7□A	2.7	S,J	16	0.1V/250M	640	0.120	10.40
SWC42I-3N3□A	3.3	S,J	19	0.1V/250M	840	0.066	7.00
SWC42I-3N6□A	3.6	S,J	19	0.1V/250M	840	0.066	6.80
SWC42I-3N9□A	3.9	S,J	19	0.1V/250M	840	0.066	6.00
SWC42I-4N3□A	4.3	S,J	18	0.1V/250M	700	0.091	6.00
SWC42I-4N7□A	4.7	S,J	15	0.1V/250M	640	0.130	4.77
SWC42I-5N1□A	5.1	S,J	20	0.1V/250M	800	0.083	4.80
SWC42I-5N6□A	5.6	S,J	20	0.1V/250M	760	0.083	4.80
SWC42I-6N2□A	6.2	J,K	20	0.1V/250M	760	0.083	4.80
SWC42I-6N8□A	6.8	J,K	20	0.1V/250M	680	0.083	4.80

Part Number	Inductance (nH)	Tolerance	Q min.	Test Frequency (Hz)	Rated Current (mA) max..	DCR (Ω) max.	SRF (GHz) min.
SWC42I-7N5□A	7.5	J.K	22	0.1V/250M	680	0.100	4.80
SWC42I-8N2□A	8.2	J.K	22	0.1V/250M	680	0.100	4.40
SWC42I-8N7□A	8.7	J.K	18	0.1V/250M	480	0.200	4.10
SWC42I-9N0□A	9.0	J.K	22	0.1V/250M	680	0.100	4.16
SWC42I-9N1□A	9.1	J.K	22	0.1V/250M	680	0.100	4.16
SWC42I-9N5□A	9.5	J.K	18	0.1V/250M	480	0.200	4.00
SWC42I-10N□A	10	J.K	21	0.1V/250M	480	0.200	3.90
SWC42I-11N□A	11	J.K	24	0.1V/250M	640	0.120	3.68
SWC42I-12N□A	12	J.K	24	0.1V/250M	640	0.120	3.60
SWC42I-13N□A	13	J.K	24	0.1V/250M	440	0.210	3.45
SWC42I-15N□A	15	J.K	24	0.1V/250M	560	0.170	3.28
SWC42I-16N□A	16	J.K	24	0.1V/250M	560	0.220	3.10
SWC42I-18N□A	18	J.K	25	0.1V/250M	420	0.230	3.10
SWC42I-19N□A	19	J.K	24	0.1V/250M	480	0.200	3.04
SWC42I-20N□A	20	J.K	25	0.1V/250M	420	0.25	3.00
SWC42I-22N□A	22	J.K	25	0.1V/250M	400	0.30	2.80
SWC42I-23N□A	23	J.K	22	0.1V/250M	400	0.30	2.72
SWC42I-24N□A	24	J.K	25	0.1V/250M	400	0.30	2.70
SWC42I-27N□A	27	J.K	24	0.1V/250M	400	0.30	2.48
SWC42I-30N□A	30	J.K	25	0.1V/250M	400	0.35	2.35
SWC42I-33N□A	33	J.K	24	0.1V/250M	400	0.40	2.35
SWC42I-36N□A	36	J.K	24	0.1V/250M	320	0.44	2.32
SWC42I-39N□A	39	J.K	25	0.1V/250M	200	0.55	2.10
SWC42I-40N□A	40	J.K	24	0.1V/250M	320	0.44	2.24
SWC42I-43N□A	43	J.K	25	0.1V/250M	100	0.81	2.03
SWC42I-47N□A	47	J.K	20	0.1V/250M	150	0.83	2.10
SWC42I-51N□A	51	J.K	25	0.1V/250M	100	0.82	1.75
SWC42I-56N□A	56	J.K	22	0.1V/250M	100	0.97	1.76
SWC42I-68N□A	68	J.K	22	0.1V/250M	100	1.12	1.62
SWC42I-82N□A	82	J.K	20	0.1V/250M	50	1.55	1.26
SWC42I-R10□A	100	J.K	20	0.1V/250M	30	2.00	1.16