

High Frequency Winding Type Chip Inductor

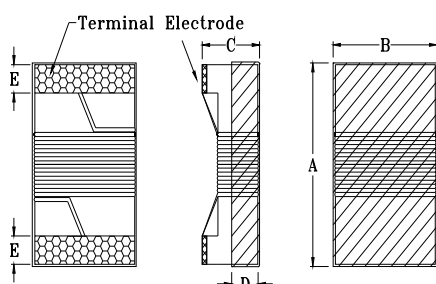
SWC85I-SERIES

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)



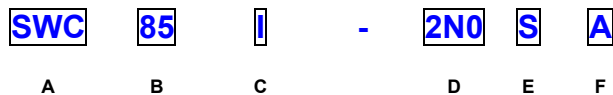
2. Dimensions



Size	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
SWC85I	2.40 max.	1.60 max.	1.40 max.	0.51 ref.	0.44±0.1

Unit:mm

3. Part Numbering



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

4. Specification

Part Number	Inductance (nH)	Tolerance	Test Frequency (Hz)	Q @ Test Freq. min.	Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
SWC85I-2N0□A	2.0	C,S	0.1V/250M	70/1500	800	0.03	8000
SWC85I-3N9□A	3.9	C,S	0.1V/250M	70/1500	800	0.04	5750
SWC85I-4N7□A	4.7	C,S	0.1V/250M	70/1500	800	0.04	5750
SWC85I-6N8□A	6.8	C,J,K	0.1V/250M	70/1500	800	0.06	5500
SWC85I-7N5□A	7.5	C,J,K	0.1V/250M	70/1000	800	0.06	4500
SWC85I-8N2□A	8.2	C,J,K	0.1V/250M	70/1000	800	0.06	4700
SWC85I-10N□A	10	J,K	0.1V/250M	70/1000	600	0.08	4200
SWC85I-12N□A	12	J,K	0.1V/250M	80/1000	600	0.08	4000
SWC85I-15N□A	15	J,K	0.1V/250M	80/1000	600	0.10	3400

Part Number	Inductance (nH)	Tolerance	Test Frequency (Hz)	Q @ Test Freq. min.	Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
SWC85I-18N□A	18	J,K	0.1V/250M	80/1000	600	0.10	3300
SWC85I-22N□A	22	J,K	0.1V/250M	60/500	600	0.12	2600
SWC85I-24N□A	24	J,K	0.1V/250M	60/500	600	0.12	2000
SWC85I-27N□A	27	J,K	0.1V/250M	60/500	600	0.12	2500
SWC85I-33N□A	33	J,K	0.1V/250M	60/500	600	0.13	2050
SWC85I-36N□A	36	J,K	0.1V/250M	65/500	600	0.13	1700
SWC85I-39N□A	39	J,K	0.1V/250M	65/500	600	0.15	2000
SWC85I-43N□A	43	J,K	0.1V/200M	65/500	600	0.15	1650
SWC85I-47N□A	47	J,K	0.1V/200M	65/500	600	0.17	1650
SWC85I-56N□A	56	J,K	0.1V/200M	65/500	600	0.19	1550
SWC85I-68N□A	68	J,K	0.1V/200M	60/500	500	0.22	1450
SWC85I-82N□A	82	J,K	0.1V/150M	55/500	400	0.40	1300
SWC85I-R10□A	100	J,K	0.1V/150M	55/500	400	0.52	1200
SWC85I-R11□A	110	J,K	0.1V/150M	55/500	400	0.52	1200
SWC85I-R12□A	120	J,K	0.1V/150M	50/250	400	0.55	1100
SWC85I-R15□A	150	J,K	0.1V/150M	50/250	400	0.73	920
SWC85I-R18□A	180	J,K	0.1V/100M	50/250	400	0.88	870
SWC85I-R22□A	220	J,K	0.1V/100M	50/250	340	1.18	850
SWC85I-R24□A	240	J,K	0.1V/100M	48/250	330	1.20	690
SWC85I-R27□A	270	J,K	0.1V/100M	48/250	310	1.36	650
SWC85I-R33□A	330	J,K	0.1V/100M	40/250	300	1.40	600
SWC85I-R39□A	390	J,K	0.1V/100M	25/250	290	1.50	560
SWC85I-R47□A	470	J,K	0.1V/50M	25/100	250	1.76	375
SWC85I-R56□A	560	J,K	0.1V/25M	23/100	210	1.90	340
SWC85I-R62□A	620	J,K	0.1V/25M	23/100	205	2.00	220
SWC85I-R68□A	680	J,K	0.1V/25M	23/100	200	2.15	200
SWC85I-R75□A	750	J,K	0.1V/25M	20/100	185	2.25	200
SWC85I-R82□A	820	J,K	0.1V/25M	20/100	170	2.50	200
SWC85I-1R0□A	1000	J,K	0.1V/25M	15/50	170	2.60	100

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	85I	2.40max	1.60max	1.40max	0.51 ref	0.44±0.1	2.80	1.29	1.78	

