

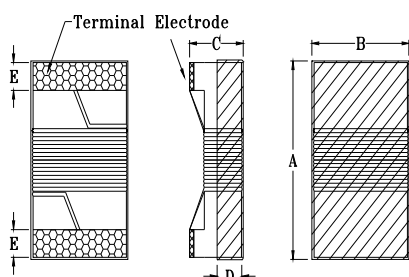
High Frequency Winding Type Chip Inductor SWI1008UF-SERIES

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 $-40\sim+125^{\circ}\text{C}$ (Including self - temperature rise)



2. Dimensions



Size	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
SWI1008	2.92 max.	2.79 max.	2.20 max.	1.20 ref.	0.55±0.1

Unit:mm

3. Part Numbering

SWI	1008	U	F	-	10N	J
A	B	C	D		E	F

A: Series

B: Dimension

LxW

C: Material

D: Lead Free Code

E: Inductance

10N=10nH

F: Inductance Tolerance

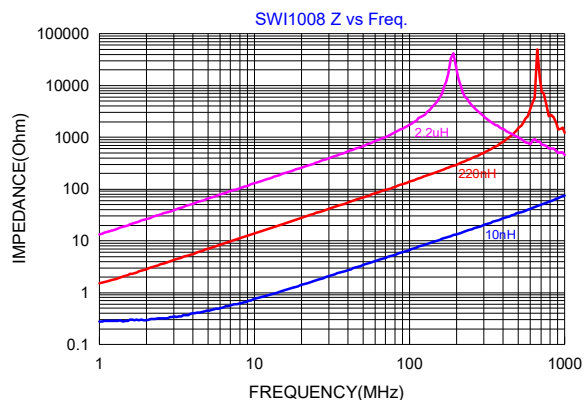
G=±2%, J=±5%, K=±10%

4. Specification

Part Number	Inductance (nH)	Tolerance	Test Frequency (Hz)	Q min.	Test Frequency (MHz)	Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
SWI1008UF-10N□	10	G, J, K	0.1V/50M	50	500	1000	0.08	4100
SWI1008UF-12N□	12	G, J, K	0.1V/50M	50	500	1000	0.09	3300
SWI1008UF-15N□	15	G, J, K	0.1V/50M	50	500	1000	0.18	2500
SWI1008UF-18N□	18	G, J, K	0.1V/50M	50	350	1000	0.11	2500
SWI1008UF-22N□	22	G, J, K	0.1V/50M	55	350	1000	0.12	2400
SWI1008UF-27N□	27	G, J, K	0.1V/50M	55	350	1000	0.13	1600
SWI1008UF-33N□	33	G, J, K	0.1V/50M	60	350	1000	0.14	1600
SWI1008UF-39N□	39	G, J, K	0.1V/50M	60	350	1000	0.15	1500
SWI1008UF-47N□	47	G, J, K	0.1V/50M	65	350	1000	0.16	1500
SWI1008UF-56N□	56	G, J, K	0.1V/50M	65	350	1000	0.18	1300
SWI1008UF-68N□	68	G, J, K	0.1V/50M	65	350	1000	0.20	1300
SWI1008UF-82N□	82	G, J, K	0.1V/50M	60	350	1000	0.22	1000
SWI1008UF-R10□	100	G, J, K	0.1V/25M	60	350	650	0.56	1000
SWI1008UF-R12□	120	G, J, K	0.1V/25M	60	350	650	0.63	950

Part Number	Inductance (nH)	Tolerance	Test Frequency (Hz)	Q min.	Test Frequency (MHz)	Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
SWI1008UF-R15□	150	G, J,K	0.1V/25M	45	100	580	0.70	850
SWI1008UF-R18□	180	G, J,K	0.1V/25M	45	100	620	0.77	750
SWI1008UF-R22□	220	G, J,K	0.1V/25M	45	100	500	0.84	700
SWI1008UF-R27□	270	G, J,K	0.1V/25M	45	100	500	0.91	600
SWI1008UF-R33□	330	G, J,K	0.1V/25M	45	100	450	1.05	570
SWI1008UF-R39□	390	G, J,K	0.1V/25M	45	100	470	1.12	500
SWI1008UF-R47□	470	G, J,K	0.1V/25M	45	100	470	1.19	450
SWI1008UF-R56□	560	G, J,K	0.1V/25M	45	100	400	1.33	415
SWI1008UF-R62□	620	G, J,K	0.1V/25M	45	100	300	1.40	375
SWI1008UF-R68□	680	G, J,K	0.1V/25M	45	100	400	1.47	375
SWI1008UF-R75□	750	G, J,K	0.1V/25M	45	100	360	1.54	360
SWI1008UF-R82□	820	G, J,K	0.1V/25M	45	100	400	1.61	350
SWI1008UF-R91□	910	G, J,K	0.1V/25M	35	50	380	1.68	320
SWI1008UF-1R0□	1000	G, J,K	0.1V/25M	35	50	370	1.75	290
SWI1008UF-1R2□	1200	G, J,K	0.1V/7.9M	35	50	310	2.00	250
SWI1008UF-1R5□	1500	G, J,K	0.1V/7.9M	28	50	330	2.23	200
SWI1008UF-1R8□	1800	G, J,K	0.1V/7.9M	28	50	300	2.60	160
SWI1008UF-2R2□	2200	G, J,K	0.1V/7.9M	28	50	280	2.80	160
SWI1008UF-2R7□	2700	G, J,K	0.1V/7.9M	22	25	290	3.20	140
SWI1008UF-3R3□	3300	G, J,K	0.1V/7.9M	22	25	290	3.40	110
SWI1008UF-3R9□	3900	G, J,K	0.1V/7.9M	20	25	260	3.60	100
SWI1008UF-4R7□	4700	G, J,K	0.1V/7.9M	18	7.9	200	4.00	32
SWI1008UF-5R6□	5600	G, J,K	0.1V/7.9M	18	7.9	200	4.00	25
SWI1008UF-6R8□	6800	G, J,K	0.1V/7.9M	18	7.9	200	4.90	21
SWI1008UF-8R2□	8200	G, J,K	0.1V/7.9M	16	7.9	170	6.00	16
SWI1008UF-100□	10000	G, J,K	0.1V/2.52M	15	7.9	170	8.00	14

Impedance v.s. Frequency Characteristics



Inductance v.s. Frequency Characteristics

