

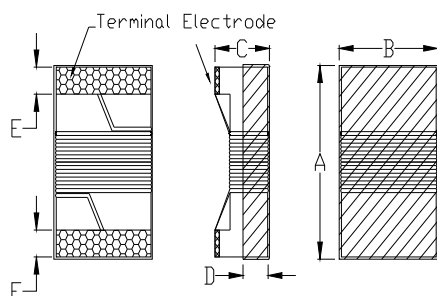
High Frequency Winding Type Chip Inductor SWI0603V-SERIES

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. High reliability -Reliability tests comply with AEC-Q200
8. Operating temperature-55~+125°C (Including self - temperature rise)



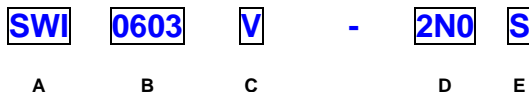
2. Dimensions



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

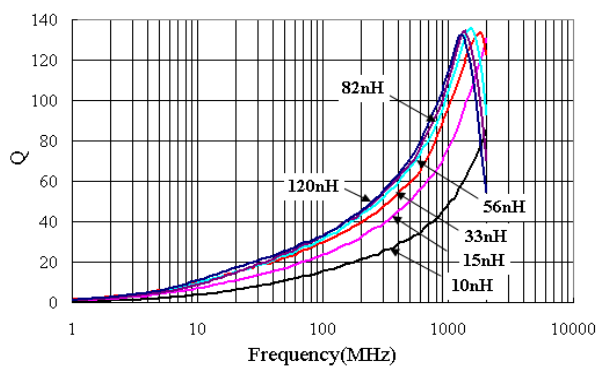
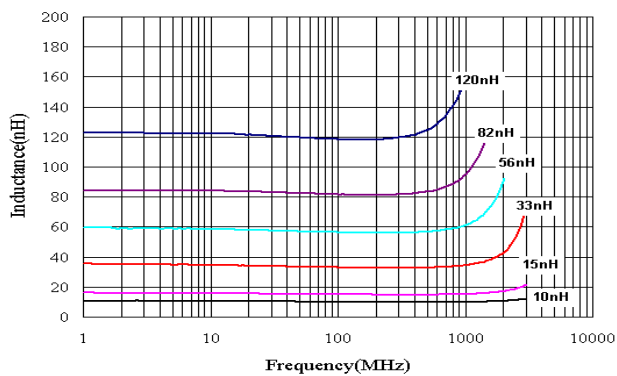


- A: Series
 B: Dimension LxW
 C: Category Code V=Vehicle
 D: Inductance 2N0=2.0nH
 E: Inductance Tolerance C=±0.2nH , S=±0.3nH , J=±5% , K=±10%

4. Specification

Part Number	Inductance (nH)	Tolerance	Test Frequency (Hz)	Q @ 250MHz min.	Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
SWI0603V-2N0□	2.0	C,S	0.1V/250M	13	700	0.07	8000
SWI0603V-3N9□	3.9	C,S	0.1V/250M	22	700	0.07	6900
SWI0603V-4N7□	4.7	C,J,K	0.1V/250M	20	700	0.12	5800
SWI0603V-6N8□	6.8	C,J,K	0.1V/250M	27	700	0.08	5800
SWI0603V-8N2□	8.2	C,J,K	0.1V/250M	30	700	0.13	4200
SWI0603V-10N□	10	J,K	0.1V/250M	31	700	0.13	4800
SWI0603V-12N□	12	J,K	0.1V/250M	35	700	0.13	4000
SWI0603V-15N□	15	J,K	0.1V/250M	35	700	0.13	4000
SWI0603V-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.
SWI0603V-22N□	22	J,K	0.1V/250M	38	700	0.23	3000
SWI0603V-24N□	24	J,K	0.1V/250M	38	700	0.13	2800
SWI0603V-27N□	27	J,K	0.1V/250M	40	600	0.14	2800
SWI0603V-33N□	33	J,K	0.1V/250M	40	600	0.22	2300
SWI0603V-39N□	39	J,K	0.1V/250M	40	600	0.30	2200
SWI0603V-47N□	47	J,K	0.1V/200M	38	600	0.35	2000
SWI0603V-56N□	56	J,K	0.1V/200M	38	600	0.37	1900
SWI0603V-68N□	68	J,K	0.1V/200M	37	600	0.43	1700
SWI0603V-72N□	72	J,K	0.1V/150M	34	400	0.42	1700
SWI0603V-82N□	82	J,K	0.1V/150M	34	400	0.71	1700
SWI0603V-R10□	100	J,K	0.1V/150M	34	400	0.78	1400
SWI0603V-R12□	120	J,K	0.1V/150M	32	300	0.84	1300
SWI0603V-R15□	150	J,K	0.1V/150M	28	280	0.96	990
SWI0603V-R18□	180	J,K	0.1V/100M	25	240	1.52	990
SWI0603V-R22□	220	J,K	0.1V/100M	25	200	2.02	900
SWI0603V-R27□	270	J,K	0.1V/100M	24	170	2.36	900
SWI0603V-R33□	330	J,K	0.1V/100M	24	185	3.40	700
SWI0603V-R39□	390	J,K	0.1V/100M	24	100	3.60	900



High Frequency Winding Type Chip Inductor

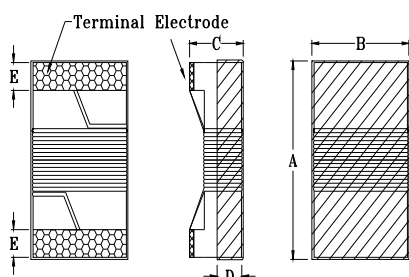
SWI0805UV-SERIES

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. High reliability -Reliability tests comply with AEC-Q200
8. Operating temperature-55~+125°C (Including self - temperature rise)



2. Dimensions



Size	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
SWI0805	2.29 max.	1.73 max.	1.52 max.	0.51 ref.	0.44±0.1

Unit:mm

3. Part Numbering

SWI	0805	U	V	-	2N8	S
A	B	C	D		E	F

A: Series

B: Dimension

LxW

C: Material

D: Category Code

V=Vehicle

E: Inductance

2N8=2.8nH

F: Inductance Tolerance

C=±0.2nH, S=±0.3nH, G=±2%, J=±5%, K=±10%

4. Specification

Part Number	Inductance (nH)	Tolerance	Test Frequency (Hz)	Q @ Test Freq. min.	I rms (mA) max.	DCR (Ω) max.	SRF (MHz) min.
SWI0805UV-2N8□	2.8	C,S	0.1V/250M	80/1500	800	0.06	7900
SWI0805UV-3N0□	3.0	C,S	0.1V/250M	65/1500	800	0.06	7900
SWI0805UV-3N3□	3.3	C,S	0.1V/250M	50/1500	600	0.08	7900
SWI0805UV-5N6□	5.6	C,S	0.1V/250M	65/1000	600	0.08	5500
SWI0805UV-6N8□	6.8	C,J	0.1V/250M	50/1000	600	0.11	5500
SWI0805UV-7N5□	7.5	C,J	0.1V/250M	50/1000	600	0.14	4500
SWI0805UV-8N2□	8.2	C,J	0.1V/250M	50/1000	600	0.12	4700
SWI0805UV-10N□	10	G,J	0.1V/250M	60/500	600	0.10	4200
SWI0805UV-12N□	12	G,J	0.1V/250M	50/500	600	0.15	4000
SWI0805UV-15N□	15	G,J	0.1V/250M	50/500	600	0.17	3400
SWI0805UV-18N□	18	G,J	0.1V/250M	50/500	600	0.20	3300
SWI0805UV-22N□	22	G,J	0.1V/250M	55/500	500	0.22	2600
SWI0805UV-24N□	24	G,J	0.1V/250M	50/500	500	0.22	2000
SWI0805UV-27N□	27	G,J	0.1V/250M	55/500	500	0.25	2500
SWI0805UV-33N□	33	G,J	0.1V/250M	60/500	500	0.27	2050

Part Number	Inductance (nH)	Tolerance	Test Frequency (Hz)	Q @ Test Freq. min.	I rms (mA) max.	DCR (Ω) max.	SRF (MHz) min.
SWI0805UV-36N□	36	G,J	0.1V/250M	55/500	500	0.27	1700
SWI0805UV-39N□	39	G,J	0.1V/250M	60/500	500	0.29	2000
SWI0805UV-43N□	43	G,J	0.1V/200M	60/500	500	0.34	1650
SWI0805UV-47N□	47	G,J	0.1V/200M	60/500	500	0.31	1650
SWI0805UV-56N□	56	G,J	0.1V/200M	60/500	500	0.34	1550
SWI0805UV-68N□	68	G,J	0.1V/200M	60/500	500	0.38	1450
SWI0805UV-82N□	82	G,J	0.1V/150M	65/500	400	0.42	1300
SWI0805UV-91N□	91	G,J	0.1V/150M	65/500	400	0.48	1200
SWI0805UV-R10□	100	G,J	0.1V/150M	65/500	400	0.46	1200
SWI0805UV-R11□	110	G,J	0.1V/150M	50/250	400	0.48	1000
SWI0805UV-R12□	120	G,J	0.1V/150M	50/250	400	0.51	1100
SWI0805UV-R15□	150	G,J	0.1V/100M	50/250	400	0.56	920
SWI0805UV-R18□	180	G,J	0.1V/100M	50/250	400	0.64	870
SWI0805UV-R20□	200	G,J	0.1V/100M	50/250	400	0.68	860
SWI0805UV-R22□	220	G,J	0.1V/100M	50/250	400	0.70	850
SWI0805UV-R24□	240	G,J	0.1V/100M	44/250	350	1.00	690
SWI0805UV-R25□	250	G,J	0.1V/100M	45/250	350	1.20	660
SWI0805UV-R27□	270	G,J	0.1V/100M	48/250	350	1.00	650
SWI0805UV-R33□	330	G,J	0.1V/100M	48/250	310	1.40	600
SWI0805UV-R39□	390	G,J	0.1V/100M	48/250	290	1.50	560
SWI0805UV-R47□	470	G,J	0.1V/50M	33/100	250	1.70	375
SWI0805UV-R56□	560	G,J	0.1V/25M	23/50	230	1.90	340
SWI0805UV-R62□	620	G,J	0.1V/25M	23/50	210	2.20	220
SWI0805UV-R68□	680	G,J	0.1V/25M	23/50	190	2.20	188
SWI0805UV-R82□	820	G,J	0.1V/25M	23/50	180	2.35	215
SWI0805UV-1R0□	1000	G,J	0.1V/25M	20/50	170	2.5	100
SWI0805UV-1R2□	1200	G,J	0.1V/7.9M	18/25	170	2.5	100

High Frequency Winding Type Chip Inductor

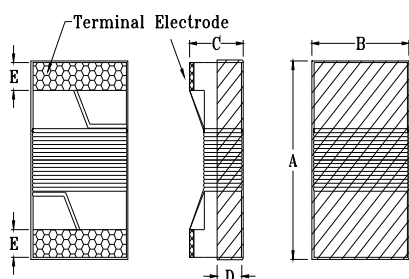
SWI1008UV-SERIES

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. High reliability -Reliability tests comply with AEC-Q200
8. Operating temperature-55~+125°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	V	-	10N	J
A	B	C	D		E	F

A: Series

B: Dimension

LxW

C: Material

D: Category Code

V=Vehicle

E: Inductance

10N=10nH

F: Inductance Tolerance

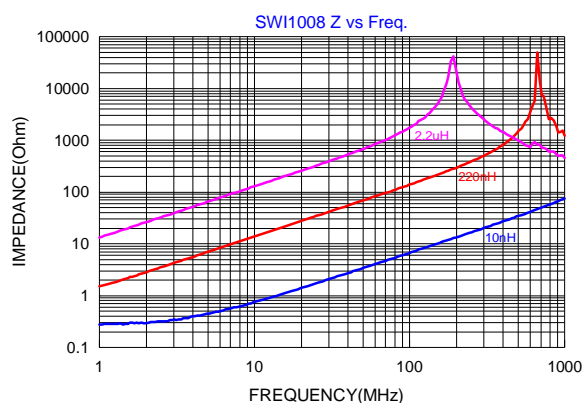
G=±2%, J=±5%, K=±10%

4. Specification

Part Number	Inductance (nH)	Tolerance	Test Frequency (Hz)	Q @ Test Freq. min.	Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
SWI1008UV-10N□	10	G, J, K	0.1V/50M	50/500	1000	0.08	4100
SWI1008UV-12N□	12	G, J, K	0.1V/50M	50/500	1000	0.09	3300
SWI1008UV-15N□	15	G, J, K	0.1V/50M	50/500	1000	0.18	2500
SWI1008UV-18N□	18	G, J, K	0.1V/50M	50/350	1000	0.11	2500
SWI1008UV-22N□	22	G, J, K	0.1V/50M	55/350	1000	0.12	2400
SWI1008UV-27N□	27	G, J, K	0.1V/50M	55/350	1000	0.13	1600
SWI1008UV-33N□	33	G, J, K	0.1V/50M	60/350	1000	0.14	1600
SWI1008UV-39N□	39	G, J, K	0.1V/50M	60/350	1000	0.15	1500
SWI1008UV-47N□	47	G, J, K	0.1V/50M	65/350	1000	0.16	1500
SWI1008UV-56N□	56	G, J, K	0.1V/50M	65/350	1000	0.18	1300
SWI1008UV-68N□	68	G, J, K	0.1V/50M	65/350	1000	0.20	1300
SWI1008UV-82N□	82	G, J, K	0.1V/50M	60/350	1000	0.22	1000
SWI1008UV-R10□	100	G, J, K	0.1V/25M	60/350	650	0.56	1000
SWI1008UV-R12□	120	G, J, K	0.1V/25M	60/350	650	0.63	950

Part Number	Inductance (nH)	Tolerance	Test Frequency (Hz)	Q @ Test Freq. min.	Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
SWI1008UV-R15□	150	G, J,K	0.1V/25M	45/100	580	0.70	850
SWI1008UV-R18□	180	G, J,K	0.1V/25M	45/100	620	0.77	750
SWI1008UV-R22□	220	G, J,K	0.1V/25M	45/100	500	0.84	700
SWI1008UV-R27□	270	G, J,K	0.1V/25M	45/100	500	0.91	600
SWI1008UV-R33□	330	G, J,K	0.1V/25M	45/100	450	1.05	570
SWI1008UV-R39□	390	G, J,K	0.1V/25M	45/100	470	1.12	500
SWI1008UV-R47□	470	G, J,K	0.1V/25M	45/100	470	1.19	450
SWI1008UV-R56□	560	G, J,K	0.1V/25M	45/100	400	1.33	415
SWI1008UV-R62□	620	G, J,K	0.1V/25M	45/100	300	1.40	375
SWI1008UV-R68□	680	G, J,K	0.1V/25M	45/100	400	1.47	375
SWI1008UV-R75□	750	G, J,K	0.1V/25M	45/100	360	1.54	360
SWI1008UV-R82□	820	G, J,K	0.1V/25M	45/100	400	1.61	350
SWI1008UV-R91□	910	G, J,K	0.1V/25M	35/50	380	1.68	320
SWI1008UV-1R0□	1000	G, J,K	0.1V/25M	35/50	370	1.75	290
SWI1008UV-1R2□	1200	G, J,K	0.1V/7.9M	35/50	310	2.00	250
SWI1008UV-1R5□	1500	G, J,K	0.1V/7.9M	28/50	330	2.23	200
SWI1008UV-1R8□	1800	G, J,K	0.1V/7.9M	28/50	300	2.60	160
SWI1008UV-2R2□	2200	G, J,K	0.1V/7.9M	28/50	280	2.80	160
SWI1008UV-2R7□	2700	G, J,K	0.1V/7.9M	22/25	290	3.20	140
SWI1008UV-3R3□	3300	G, J,K	0.1V/7.9M	22/25	290	3.40	110
SWI1008UV-3R9□	3900	G, J,K	0.1V/7.9M	20/25	260	3.6	100
SWI1008UV-4R7□	4700	G, J,K	0.1V/7.9M	18/7.9	200	4	32
SWI1008UV-5R6□	5600	G, J,K	0.1V/7.9M	18/7.9	200	4.0	25
SWI1008UV-6R8□	6800	G, J,K	0.1V/7.9M	18/7.9	200	4.9	21
SWI1008UV-8R2□	8200	G, J,K	0.1V/7.9M	16/7.9	170	6.0	16
SWI1008UV-100□	10000	G, J,K	0.1V/2.52M	15/7.9	170	8.0	14

Impedance v.s. Frequency Characteristics



Inductance v.s. Frequency Characteristics

