

On-Board Type Coils / Chip Inductors



For High Frequency Use Winding Type **SWI** Series

SWI Series

Wire wound ceramic chip inductor offers the overall combination of low cost, close tolerance, better Q factor and high self-resonant multilayer chip inductor.

繞線陶瓷晶片電感提供全面的組合，為具低價、誤差小及高的自我共振頻率的積層晶片電感。



Features

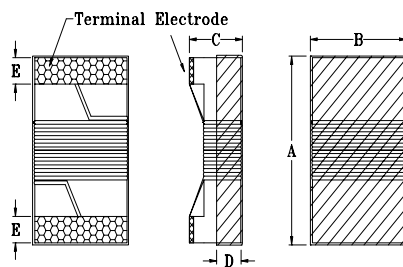
1. Ceramic core wire wound construction.
2. No batch to batch variations in inductance, SRF and Q that are present in ferrite inductors.
3. High reliability due to ceramic wire wound construction.
4. High frequency application.
5. Small footprint as well as low profile.
6. The products contain no lead and also support lead-free soldering.

Lead Free Part Numbering



A: Series
 B: Dimension LxW
 C: Material Ceramic
 D: Inductance 1N0=1.0nH
 E: Inductance Tolerance B=±0.2nH, S=±0.3 nH, J=±5%, K=±10%
 F: Packaging PR=Paper Tape & Reel

Dimensions

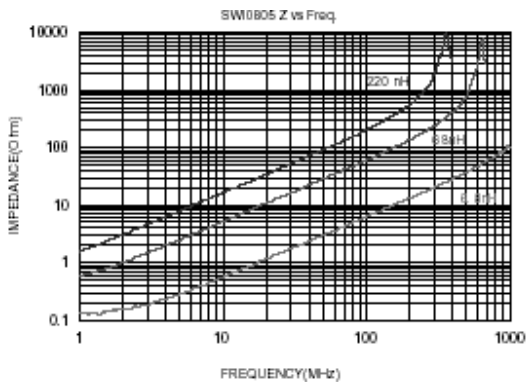


Size	A	B	C	D	E
SWI0402F	1.19 max.	0.64 max.	0.66 max.	0.25 ref.	0.23±0.1
SWI0603F	1.80 max.	1.20 max.	1.02 max.	0.38 ref.	0.35±0.1
SWI0805F	2.40 max.	1.60 max.	1.40 max.	0.51 ref.	0.44±0.1
SWI1008F	2.90 max.	2.50 max.	2.03 max.	1.20 ref.	0.55±0.1

SWI 0805 Series

Part Number	Inductance (nH)	Tolerance	Test Frequency (Hz)	Q @ Test Freq. min.	I _{rms} (mA)	DCR () max.	SRF (MHz) min.
SWI0805F-2N0	2.0	B,S	0.1V/250M	80/1500	800	0.03	12200
SWI0805F-3N0	3.0	B,S	0.1V/250M	65/1500	800	0.06	12200
SWI0805F-3N3	3.3	B,S	0.1V/250M	50/1500	600	0.08	12200
SWI0805F-3N9	3.9	B,S	0.1V/250M	60/1000	600	0.04	6100
SWI0805F-4N7	4.7	B,S	0.1V/250M	60/1000	600	0.04	6000
SWI0805F-5N6	4.7	B,S	0.1V/250M	65/1000	600	0.08	5900
SWI0805F-6N8	6.8	B,J	0.1V/250M	50/1000	600	0.06	5600
SWI0805F-7N5	7.5	B,J	0.1V/250M	50/1000	600	0.06	4800
SWI0805F-8N2	8.2	B,J	0.1V/250M	50/1000	600	0.06	4700
SWI0805F-10N	10	G,J	0.1V/250M	60/500	600	0.08	4300
SWI0805F-12N	12	G,J	0.1V/250M	50/500	600	0.08	4000
SWI0805F-15N	15	G,J	0.1V/250M	50/500	600	0.10	3400
SWI0805F-18N	18	G,J	0.1V/250M	50/500	600	0.10	3300
SWI0805F-22N	22	G,J	0.1V/250M	60/500	600	0.12	2600
SWI0805F-24N	24	G,J	0.1V/250M	60/500	600	0.12	2400
SWI0805F-27N	27	G,J	0.1V/250M	60/500	600	0.12	2580
SWI0805F-33N	33	G,J	0.1V/250M	60/500	600	0.13	2150
SWI0805F-36N	36	G,J	0.1V/250M	65/500	600	0.13	1900
SWI0805F-39N	39	G,J	0.1V/250M	65/500	600	0.15	2000
SWI0805F-43N	43	G,J	0.1V/200M	65/500	600	0.15	1800
SWI0805F-47N	47	G,J	0.1V/200M	65/500	600	0.17	1700
SWI0805F-56N	56	G,J	0.1V/200M	65/500	600	0.19	1600
SWI0805F-68N	68	G,J	0.1V/200M	60/500	500	0.22	1500
SWI0805F-82N	82	G,J	0.1V/150M	65/500	400	0.40	1330
SWI0805F-91N	82	G,J	0.1V/150M	65/500	400	0.40	1330
SWI0805F-R10	100	G,J	0.1V/150M	65/500	400	0.52	1250
SWI0805F-R11	110	G,J	0.1V/150M	50/250	400	0.52	1100
SWI0805F-R12	120	G,J	0.1V/150M	50/250	400	0.55	1100
SWI0805F-R15	150	G,J	0.1V/150M	50/250	400	0.73	920
SWI0805F-R18	180	G,J	0.1V/100M	50/250	400	0.88	920
SWI0805F-R20	200	G,J	0.1V/100M	50/250	400	1.18	860
SWI0805F-R22	220	G,J	0.1V/100M	50/250	400	1.18	850
SWI0805F-R24	240	G,J	0.1V/100M	48/250	350	1.20	770
SWI0805F-R25	250	G,J	0.1V/100M	48/250	350	1.20	730
SWI0805F-R27	270	G,J	0.1V/100M	48/250	350	1.36	730
SWI0805F-R33	330	G,J	0.1V/100M	40/250	310	1.40	650
SWI0805F-R39	390	G,J	0.1V/100M	25/250	290	1.50	600
SWI0805F-R47	470	G,J	0.1V/50M	25/100	250	1.76	375
SWI0805F-R56	560	G,J	0.1V/25M	23/100	230	1.90	340
SWI0805F-R62	620	G,J	0.1V/25M	23/100	210	2.00	310
SWI0805F-R68	680	G,J	0.1V/25M	23/100	200	2.15	310
SWI0805F-R75	750	G,J	0.1V/25M	20/100	185	2.25	310
SWI0805F-R82	820	G,J	0.1V/25M	20/100	180	2.50	310
SWI0805F-1R0	1000	G,J	0.1V/25M	15/50	170	2.60	100

Impedance v.s. Frequency Characteristics



Inductance v.s. Frequency Characteristics

