



1008F Series – SMD WIRE WOUND FERRITE CHIP INDUCTORS

Rev. A

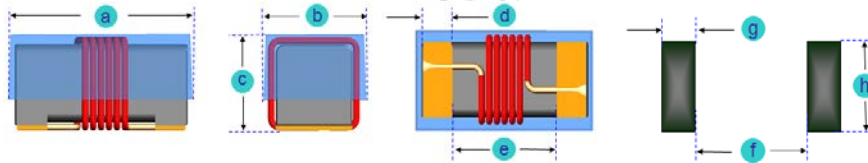
A. Electrical Specifications:

P/N	L (uH)	L Test Freq. (MHz)	Tol.	Q Min.	Q Test Freq. (MHz)	SRF Min. (GHz)	DCR Max.(Ω)	I rms. Max.(mA)	1 st Color	2 nd Color	3 rd Color
1008F-47N	0.047	50	K, J	50	50	1.80	0.045	650	YELLOW	VIOLET	BLACK
1008F-68N	0.068	50	K, J	40	50	1.80	0.045	650	BLUE	GRAY	BLACK
1008F-R10	0.100	50	K, J	50	50	1.80	0.196	700	BROWN	BLACK	BROWN
1008F-R18	0.180	50	K, J	50	50	1.00	0.290	700	BROWN	GRAY	BROWN
1008F-R20	0.200	50	K, J	50	50	0.900	0.285	700	RED	BLACK	BROWN
1008F-R24	0.240	50	K, J	50	50	0.900	0.135	700	RED	YELLOW	BROWN
1008F-R56	0.560	7.9	K, J	40	50	0.460	0.300	700	GREEN	BLUE	BROWN
1008F-R68	0.680	7.9	K, J	27	50	0.400	0.320	700	BLUE	GRAY	BROWN
1008F-1R0	1.00	50	K, J	50	50	0.380	0.260	650	BROWN	BLACK	RED
1008F-1R2	1.20	7.9	K, J	48	50	0.210	0.680	650	BROWN	RED	RED
1008F-1R5	1.50	7.9	K, J	41	50	0.190	0.760	630	BROWN	GREEN	RED
1008F-1R8	1.80	7.9	K, J	39	50	0.170	0.840	600	BROWN	GRAY	RED
1008F-2R2	2.20	7.9	K, J	34	50	0.150	1.10	520	RED	RED	RED
1008F-2R7	2.70	7.9	K, J	34	50	0.135	1.28	490	RED	VIOLET	RED
1008F-3R3	3.30	7.9	K, J	32	50	0.120	1.46	450	ORANGE	ORANGE	RED
1008F-3R9	3.90	7.9	K, J	32	7.9	0.105	1.56	420	ORANGE	WHITE	RED
1008F-4R3	4.30	7.9	K, J	30	7.9	0.085	1.70	400	YELLOW	ORANGE	RED
1008F-4R7	4.70	7.9	K, J	31	7.9	0.090	1.68	400	YELLOW	VIOLET	RED
1008F-5R6	5.60	7.9	K, J	31	7.9	0.080	1.82	380	GREEN	BLUE	RED
1008F-6R8	6.80	7.9	K, J	31	7.9	0.070	2.00	360	BLUE	GRAY	RED
1008F-8R2	8.20	7.9	K, J	23	7.9	0.065	2.65	330	GRAY	RED	RED
1008F-100	10.0	7.9	K, J	31	7.9	0.060	2.95	300	BROWN	BLACK	ORANGE
1008F-120	12.0	7.9	K, J	30	7.9	0.050	3.35	270	BROWN	RED	ORANGE
1008F-150	15.0	7.9	K, J	38	7.9	0.050	3.04	250	BROWN	GREEN	ORANGE
1008F-220	22.0	2.52	K, J	10	2.52	0.010	2.80	120	RED	RED	ORANGE

Note: 1008F-xxx: "1008F" = Size Type, "xxx" = Inductance, "_" = Tolerance, K= ± 10%, J= ± 5%.

B. Dimensions: mm (Inch)

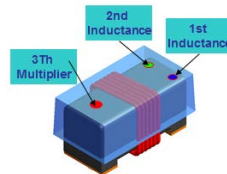
Series	a	b	c	d	e	f	g	h
1008F	2.92 (0.115)	2.79 (0.110)	2.03 (0.080)	0.51 (0.020)	1.52 (0.060)	1.27 (0.050)	1.27 (0.050)	2.54 (0.100)
Tol.	Max.	Max.	Max.	Typ.	Typ.	Typ.	Typ.	Typ.



C. Color coding:

- Parts are marked with 3 color dots. The table below shows the significance of each color.
- Dots 1 and 2 indicate the inductance in nano-Henries.
- Dot 3 indicates number of zeroes to be added.

0 = Black	5 = Green
1 = Brown	6 = Blue
2 = Red	7 = Violet
3 = Orange	8 = Gray
4 = Yellow	9 = White



D. General Information:

- P/N: 1008F-xxx: "1008F" = Type, "xxx" = Inductance, "_" = Tolerance.
- Tolerance "_" : K: ± 10%, J: ± 5%
- Small and lightweight surface mounting type
- High Q at high frequency
- High self-resonance frequency
- For 15°C Temperature Rise
- Inductance & Q measured with HP4291B Impedance Analyzer
- SRF measured with HP8720D or HP8753E Network Analyzer
- DCR measured with 16502 milliohm meter
- Operating temperature: -40°C to +85°C
- Inductance and Current Range: From 0.047 uH (650 mA) to 22.0 uH (120 mA)
- SRF: From 10 MHz to 1800 MHz
- Unspecified values available on request.
- MSL: Level 1.

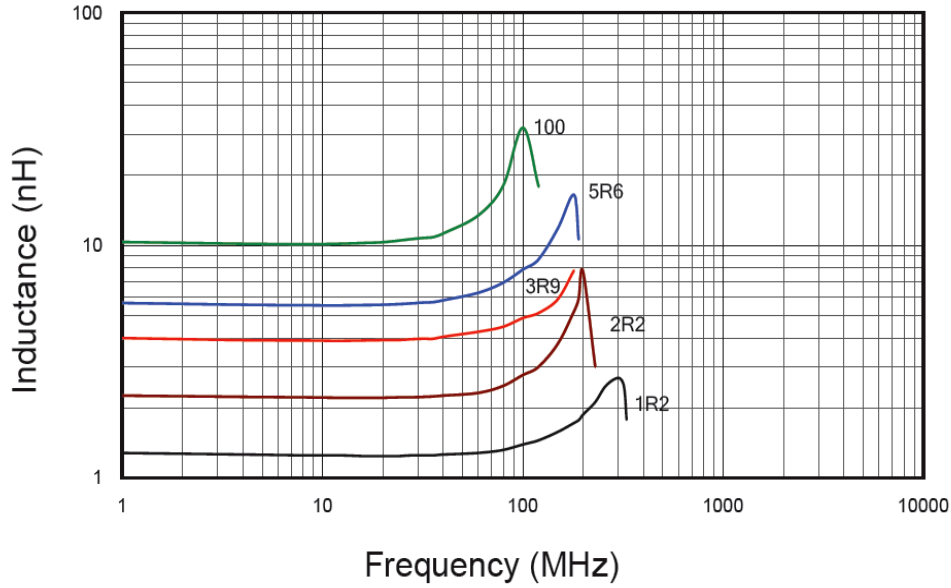


E. Applications:

1. Game Consoles
2. Set Top Boxes
3. Cables Modems
4. Computers
5. Mobile Communication Devices (Cell Phones, Radios, etc.)

F. Characteristics Curve:

Inductance vs. Frequency



Typical Q vs. Frequency

