Wire Wound Ceramic Chip Inductor 陶瓷繞線晶片電感

CW Series

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

繞線陶瓷晶片電感提供全面組合，爲具低價、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.

特徵

1.陶瓷核心繞線結構。

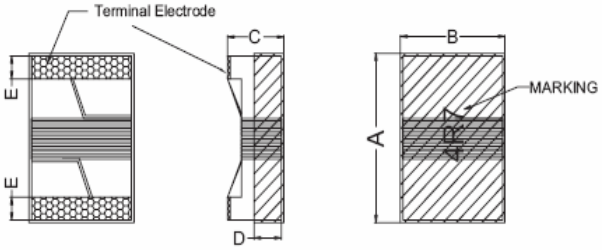
2.無似鐵氧錢體電感般有批與批之間的感值、共振頻率和 Q 值的變

3.陶瓷繞線結構具高度可靠性。

4.高頻應用

5.小型且高度扁薄

Dimensions



Chip size					
Size	A(mm)	B(mm)	B(mm)	D(mm)	E(mm)
0603	1.80max	1.12max	1.02max	0.38	0.33
0805	2.92max	1.79max	1.52max	0.51	0.50
1008	2.92max	2.92max	2.20max	0.51	0.50

Part Numbering

CW	0603	T	—	47N	K
1	2	3		4	5

1. Series
2. Dmension： A*B
3. Material: Ceramic
4. Inductance: 47N=47nH
5. Inductance Tolerance: S=±0.3nH,J=±5%,K=±10%,M=±20%

CW0603 Series

Part Number	Tolerance (%)	Inductance (nH)	Test Frequency (MHz)	Q (min)	SRF (MHz) min	DC Resistance (ohm)max	Rated Current (mA)
CW0603T-1N8□	J,K,M	1.8	250	16@250MHz	6000	0.10	700
CW0603T-3N9□	J,K,M	3.9	250	22@250MHz	6000	0.10	700
CW0603T-4N7□	J,K,M	4.7	250	15@250MHz	5800	0.25	700
CW0603T-6N8□	J,K,M	6.8	250	27@250MHz	5800	0.11	700
CW0603T-10N□	J,K,M	10	250	31@250MHz	4800	0.13	700
CW0603T-12N□	G,J,K,M	12	250	35@250MHz	4000	0.13	700
CW0603T-15N□	G,J,K,M	15	250	35@250MHz	4000	0.19	700
CW0603T-18N□	G,J,K,M	18	250	35@250MHz	3100	0.20	700
CW0603T-22N□	G,J,K,M	22	250	38@250MHz	3000	0.23	700
CW0603T-27N□	G,J,K,M	27	250	40@250MHz	2800	0.20	600
CW0603T-33N□	G,J,K,M	33	250	40@250MHz	2300	0.22	600
CW0603T-39N□	G,J,K,M	39	250	40@250MHz	2200	0.25	600
CW0603T-47N□	G,J,K,M	47	200	38@250MHz	2000	0.35	600
CW0603T-56N□	G,J,K,M	56	200	38@250MHz	1900	0.38	600
CW0603T-68N□	G,J,K,M	68	200	37@250MHz	1700	0.46	600
CW0603T-72N□	G,J,K,M	72	150	34@250MHz	1700	0.46	400
CW0603T-82N□	G,J,K,M	82	150	34@250MHz	1700	0.46	400
CW0603T-R10□	G,J,K,M	100	150	34@250MHz	1400	0.52	400
CW0603T-R11□	G,J,K,M	110	150	32@250MHz	1350	0.79	300
CW0603T-R12□	G,J,K,M	120	150	32@250MHz	1300	0.82	300
CW0603T-R15□	G,J,K,M	150	150	28@250MHz	990	1.00	280
CW0603T-R18□	G,J,K,M	180	100	25@250MHz	990	1.20	240
CW0603T-R22□	G,J,K,M	220	100	25@250MHz	990	2.00	200
CW0603T-R27□	G,J,K,M	270	100	24@250MHz	990	2.30	170

CW0805 Series

Part Number	Tolerance (%)	Inductance (nH)	Test Frequency (MHz)	Q (min)	SRF (MHz) min	DC Resistance (ohm)max	Rated Current (mA)
CW0805T-2N2□	J,K,M	2.2	250	40@250MHz	6000	0.10	600
CW0805T-3N3□	J,K,M	3.3	250	25@250MHz	6000	0.15	600
CW0805T-4N7□	J,K,M	4.7	250	50@250MHz	5000	0.09	600
CW0805T-6N8□	J,K,M	6.8	250	50@250MHz	5000	0.11	600
CW0805T-8N2□	J,K,M	8.2	250	50@250MHz	4700	0.19	600
CW0805T-10N□	J,K,M	10	250	50@250MHz	4200	0.14	600
CW0805T-12N□	G,J,K,M	12	250	50@250MHz	4000	0.15	600
CW0805T-15N□	G,J,K,M	15	250	50@250MHz	2900	0.17	600
CW0805T-18N□	G,J,K,M	18	250	50@250MHz	3300	0.20	600
CW0805T-22N□	G,J,K,M	22	250	55@250MHz	2600	0.22	500
CW0805T-27N□	G,J,K,M	27	250	55@250MHz	2500	0.25	500
CW0805T-33N□	G,J,K,M	33	250	60@250MHz	2050	0.27	500
CW0805T-39N□	G,J,K,M	39	250	60@250MHz	2000	0.29	500
CW0805T-47N□	G,J,K,M	47	250	60@250MHz	1650	0.31	500
CW0805T-56N□	G,J,K,M	56	200	60@250MHz	1550	0.34	500
CW0805T-68N□	G,J,K,M	68	200	60@250MHz	1450	0.38	500
CW0805T-82N□	G,J,K,M	82	200	60@250MHz	1300	0.42	400
CW0805T-R10□	G,J,K,M	100	150	60@250MHz	1200	0.46	400
CW0805T-R12□	G,J,K,M	120	150	50@250MHz	1100	0.51	400
CW0805T-R15□	G,J,K,M	150	100	50@250MHz	920	0.56	400
CW0805T-R18□	G,J,K,M	180	100	45@250MHz	870	0.64	400
CW0805T-R22□	G,J,K,M	220	100	40@250MHz	850	0.70	400
CW0805T-R27□	G,J,K,M	270	100	40@250MHz	650	1.00	350
CW0805T-R33□	G,J,K,M	330	100	35@250MHz	600	1.50	310
CW0805T-R39□	G,J,K,M	390	100	33@250MHz	560	1.70	290
CW0805T-R47□	G,J,K,M	470	50	23@250MHz	375	1.76	250
CW0805T-R56□	G,J,K,M	560	25	23@250MHz	340	1.90	230
CW0805T-R68□	G,J,K,M	680	25	23@250MHz	188	2.20	190
CW0805T-R82□	G,J,K,M	820	25	23@250MHz	215	2.35	180
CW0805T-R91□	G,J,K,M	910	25	22@250MHz	180	3.00	160

CW1008 Series

Part Number	Tolerance (%)	Inductance (nH)	Test Frequency (MHz)	Q (min)	SRF (MHz) min	DC Resistance (Ohm)max	Rated Current (mA)
CW1008T-10N☐	J,K,M	10	50	50@500MHz	4100	0.08	1000
CW1008T-12N☐	J,K,M	12	50	50@500MHz	3300	0.09	1000
CW1008T-15N☐	J,K,M	15	50	40@500MHz	2500	0.10	500
CW1008T-18N☐	J,K,M	18	50	50@350MHz	2500	0.11	1000
CW1008T-22N☐	J,K,M	22	50	55@350MHz	2400	0.12	1000
CW1008T-27N☐	J,K,M	27	50	55@350MHz	1600	0.13	1000
CW1008T-33N☐	G,J,K,M	33	50	60@350MHz	1600	0.14	1000
CW1008T-39N☐	G,J,K,M	39	50	60@350MHz	1500	0.15	1000
CW1008T-47N☐	G,J,K,M	47	50	65@350MHz	1500	0.16	1000
CW1008T-56N☐	G,J,K	56	50	65@350MHz	1300	0.18	1000
CW1008T-68N☐	G,J,K	68	50	65@350MHz	1300	0.20	1000
CW1008T-82N☐	G,J,K	82	50	60@350MHz	1000	0.22	1000
CW1008T-R10☐	G,J,K	100	25	60@350MHz	1000	0.56	650
CW1008T-R12☐	G,J,K	120	25	60@350MHz	950	0.63	650
CW1008T-R15☐	G,J,K	150	25	45@100MHz	850	0.70	580
CW1008T-R18☐	G,J,K	180	25	45@100MHz	750	0.77	620
CW1008T-R22☐	G,J,K	220	25	45@100MHz	700	0.84	500
CW1008T-R27☐	G,J,K	270	25	45@100MHz	600	0.91	500
CW1008T-R33☐	G,J,K	330	25	45@100MHz	570	1.05	450
CW1008T-R39☐	G,J,K	390	25	45@100MHz	500	1.12	470
CW1008T-R47☐	G,J,K	470	25	45@100MHz	450	1.19	470
CW1008T-R56☐	G,J,K	560	25	45@100MHz	415	1.33	400
CW1008T-R62☐	G,J,K	620	25	45@100MHz	375	1.40	400
CW1008T-R68☐	G,J,K	680	25	45@100MHz	375	1.47	400
CW1008T-R75☐	G,J,K	750	25	45@100MHz	360	1.54	360
CW1008T-R82☐	G,J,K	820	25	45@100MHz	350	1.61	360
CW1008T-R91☐	G,J,K	910	25	35@50MHz	320	1.68	330
CW1008T-1R0☐	G,J,K	1000	25	28@50MHz	290	1.75	330
CW1008T-1R2☐	G,J,K	1200	7.9	28@50MHz	250	2.00	280
CW1008T-1R5☐	G,J,K	1500	7.9	28@50MHz	200	2.30	280
CW1008T-1R8☐	G,J,K	1800	7.9	28@50MHz	160	2.60	270
CW1008T-2R2☐	G,J,K	2200	7.9	22@50MHz	160	2.80	250
CW1008T-2R7☐	G,J,K	2700	7.9	22@50MHz	140	4.78	250
CW1008T-3R3☐	G,J,K	3300	7.9	22@50MHz	110	5.26	250
CW1008T-3R9☐	G,J,K	3900	7.9	20@50MHz	100	5.75	230
CW1008T-4R7☐	G,J,K	4700	7.9	18@50MHz	90	6.30	230