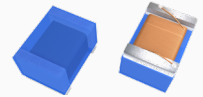


COIL SPECIFICATION



Brand ZenithTek
Product Series Code ZWC - Series
File Version V1.2
Description Wire Wound Ceramic Chip Inductor



Features

- Ceramic, Wire-Wound Construction.
- High Self-Resonant Frequency (SRF).
- High Q Value at High Frequency Level.
- Halogen Free, Lead Free, RoHS and REACH Compliance.

Applications

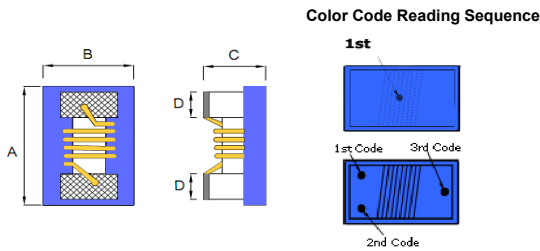
- Fit for Power Line and Signal Line Circuit Inductor Applications.

Product Identification

ZWC - 0402 CA - 3N3 J
 1 2 3 4 5

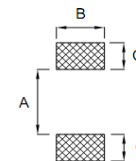
- 1.Product Code:
ZWC = ZenithTek Code.
- 2.Dimension Code:
0402 = 1.19 * 0.64 * 0.66 mm.
- 3.Type Code:
CA.
- 4.Inductance Code:
3N3 = 3.3nH.
- 5.Tolerance Code:
J = 5%.

Dimension (Unit: mm)



Type	A(Max.)	B(Max.)	C(Max.)	D(Ref.)
ZWC-0402	1.19	0.64	0.66	0.23
ZWC-0603	1.80	1.12	1.02	0.33
ZWC-0805	2.29	1.73	1.52	0.51
ZWC-1008	2.92	2.79	2.03	0.51

Land Pattern (Unit: mm)



Type	A(Ref.)	B(Ref.)	C(Ref.)
ZWC-0402	0.46	0.66	0.36
ZWC-0603	0.64	1.02	0.64
ZWC-0805	0.76	1.78	1.02
ZWC-1008	1.27	2.54	1.27

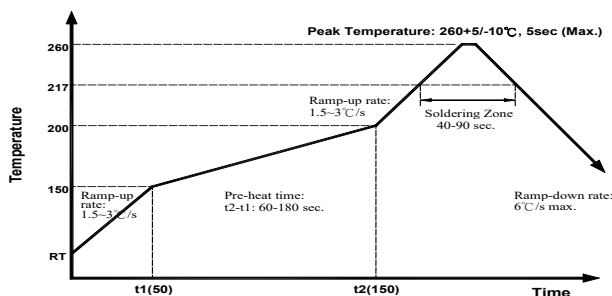
Product Structure



Schematic



Reflow Heat Endurance



Operating & Storage Conditions

Operating Temp. : -40°C~+125°C (including self-temp. rise)
 Storage Temp. : -40°C~+125°C (for PCBA)

Standard & Atmospheric Conditions

Ambient Temp. : 20°C±15°C / Relative Humidity : 65±20%.
 If there may be any doubt on the result, measurement shall be made within the following limits :
 Ambient Temp. : 25°C±5°C / Relative Humidity : 75±10%.

Test Equipment

HP4191B - L & Q.
 8753D - SRF.
 TH2512B - RDC.

COIL SPECIFICATION



ZenithTek

Brand

ZenithTek

Product Series Code

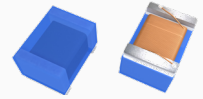
ZWC - Series

File Version

V1.2

Description

Wire Wound Ceramic Chip Inductor



Electrical Characteristic

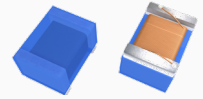
Part Number	Inductance (nH)	Tolerance (%)	Test Frequency (MHz)	Q(MHz) (Min.)	SRF(MHz) (Min.)	DCR(Ω) (Max.)	IDC(mA) (Max.)
ZWC-0402CA-1N0□	1.00	5 / 10	250	16	12700	0.045	1360
ZWC-0402CA-1N2□	1.20	5 / 10	250	16	12900	0.090	740
ZWC-0402CA-1N8□	1.80	5 / 10	250	16	12000	0.070	1040
ZWC-0402CA-1N9□	1.90	5 / 10	250	16	11300	0.070	1040
ZWC-0402CA-2N0□	2.00	3 / 5 / 10	250	16	11100	0.070	1040
ZWC-0402CA-2N2□	2.20	3 / 5 / 10	250	19	10800	0.070	960
ZWC-0402CA-2N4□	2.40	3 / 5 / 10	250	15	10500	0.068	790
ZWC-0402CA-2N7□	2.70	3 / 5 / 10	250	16	10400	0.120	640
ZWC-0402CA-3N3□	3.30	3 / 5 / 10	250	19	7000	0.066	840
ZWC-0402CA-3N6□	3.60	3 / 5 / 10	250	19	6800	0.066	840
ZWC-0402CA-3N9□	3.90	3 / 5 / 10	250	19	6000	0.066	840
ZWC-0402CA-4N3□	4.30	3 / 5 / 10	250	18	6000	0.091	700
ZWC-0402CA-4N7□	4.70	3 / 5 / 10	250	15	4770	0.130	640
ZWC-0402CA-5N1□	5.10	3 / 5 / 10	250	20	4800	0.083	800
ZWC-0402CA-5N6□	5.60	3 / 5 / 10	250	20	4800	0.083	760
ZWC-0402CA-6N2□	6.20	3 / 5 / 10	250	20	4800	0.083	760
ZWC-0402CA-6N8□	6.80	2 / 5 / 10	250	20	4800	0.083	680
ZWC-0402CA-7N3□	7.30	2 / 5 / 10	250	20	4800	0.260	680
ZWC-0402CA-7N5□	7.50	2 / 5 / 10	250	22	4800	0.100	680
ZWC-0402CA-8N2□	8.20	2 / 5 / 10	250	22	4400	0.100	680
ZWC-0402CA-8N7□	8.70	2 / 5 / 10	250	18	4100	0.200	480
ZWC-0402CA-9N0□	9.00	2 / 5 / 10	250	22	4160	0.100	680
ZWC-0402CA-9N1□	9.10	2 / 5 / 10	250	22	4160	0.100	680
ZWC-0402CA-9N5□	9.50	2 / 5 / 10	250	18	4000	0.200	480
ZWC-0402CA-10N□	10	2 / 5 / 10	250	21	3900	0.200	480
ZWC-0402CA-11N□	11	2 / 5 / 10	250	24	3680	0.120	640
ZWC-0402CA-12N□	12	2 / 5 / 10	250	24	3600	0.120	640
ZWC-0402CA-13N□	13	2 / 5 / 10	250	24	3450	0.210	440
ZWC-0402CA-15N□	15	2 / 5 / 10	250	24	3280	0.170	560
ZWC-0402CA-16N□	16	2 / 5 / 10	250	24	3100	0.220	560
ZWC-0402CA-18N□	18	2 / 5 / 10	250	25	3100	0.230	420
ZWC-0402CA-19N□	19	2 / 5 / 10	250	24	3040	0.200	480
ZWC-0402CA-20N□	20	2 / 5 / 10	250	25	3000	0.250	420
ZWC-0402CA-22N□	22	2 / 5 / 10	250	25	2800	0.300	400
ZWC-0402CA-23N□	23	2 / 5 / 10	250	22	2720	0.300	400
ZWC-0402CA-24N□	24	2 / 5 / 10	250	25	2700	0.300	400
ZWC-0402CA-27N□	27	2 / 5 / 10	250	24	2480	0.300	400
ZWC-0402CA-30N□	30	2 / 5 / 10	250	25	2350	0.300	400
ZWC-0402CA-33N□	33	2 / 5 / 10	250	24	2350	0.440	400
ZWC-0402CA-36N□	36	2 / 5 / 10	250	24	2320	0.440	320
ZWC-0402CA-39N□	39	2 / 5 / 10	250	25	2100	0.550	200
ZWC-0402CA-40N□	40	2 / 5 / 10	250	24	2240	0.440	320
ZWC-0402CA-43N□	43	2 / 5 / 10	250	25	2030	0.810	100
ZWC-0402CA-47N□	47	2 / 5 / 10	250	20	2100	0.830	150
ZWC-0402CA-51N□	51	2 / 5 / 10	250	25	1750	0.820	100
ZWC-0402CA-56N□	56	2 / 5 / 10	250	22	1760	0.970	100

Note : Tolerance : G = $\pm 2\%$, H = $\pm 3\%$, J = $\pm 5\%$, K = $\pm 10\%$.

COIL SPECIFICATION



Brand ZenithTek
Product Series Code ZWC - Series
File Version V1.2
Description Wire Wound Ceramic Chip Inductor



Electrical Characteristic

Part Number	Inductance (nH)	Tolerance (%)	Test Frequency (MHz)	Q(MHz) (Min.)	SRF(MHz) (Min.)	DCR(Ω) (Max.)	IDC(mA) (Max.)
ZWC-0402CA-68N□	68	2 / 5 / 10	250	22	1620	1.120	100
ZWC-0402CA-82N□	82	5 / 10	250	20	1260	1.550	50
ZWC-0402CA-R10□	100	2 / 5 / 10	250	20	1160	2.000	30
ZWC-0402CA-R12□	120	2 / 5 / 10	250	20	1110	2.200	50

Note : Tolerance : G = $\pm 2\%$, H = $\pm 3\%$, J = $\pm 5\%$, K = $\pm 10\%$.

COIL SPECIFICATION



ZenithTek

Brand

ZenithTek

Product Series Code

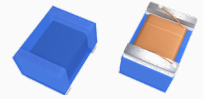
ZWC - Series

File Version

V1.2

Description

Wire Wound Ceramic Chip Inductor



Electrical Characteristic

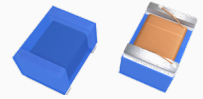
Part Number	Inductance (nH)	Tolerance (%)	Test Frequency (MHz)	Q(MHz) (Min.)	SRF(MHz) (Min.)	DCR(Ω) (Max.)	IDC(mA) (Max.)	COLOR CODE
ZWC-0603CA-1N6□	1.60	5 / 10	250	24	12500	0.030	700	Black
ZWC-0603CA-1N8□	1.80	5 / 10	250	16	12500	0.045	700	Brown
ZWC-0603CA-2N2□	2.20	5 / 10	100	20	5800	0.050	700	Orange
ZWC-0603CA-3N3□	3.30	5 / 10	250	20	5500	0.070	700	Violet
ZWC-0603CA-3N6□	3.60	5 / 10	250	22	5900	0.063	700	Red
ZWC-0603CA-3N9□	3.90	5 / 10	250	22	6900	0.080	700	Orange
ZWC-0603CA-4N3□	4.30	5 / 10	250	22	5900	0.063	700	Yellow
ZWC-0603CA-4N7□	4.70	5 / 10	250	20	5800	0.116	700	Green
ZWC-0603CA-5N1□	5.10	5 / 10	250	20	5700	0.140	700	Blue
ZWC-0603CA-5N6□	5.60	2 / 5 / 10	250	20	5800	0.150	700	Gray
ZWC-0603CA-6N1□	6.10	2 / 5 / 10	250	25	5800	0.110	700	White
ZWC-0603CA-6N8□	6.80	2 / 5 / 10	250	27	5800	0.110	700	Violet
ZWC-0603CA-7N5□	7.50	2 / 5 / 10	250	28	4800	0.106	700	Gray
ZWC-0603CA-8N2□	8.20	2 / 5 / 10	250	25	5800	0.120	700	Black
ZWC-0603CA-8N4□	8.40	2 / 5 / 10	250	28	4600	0.109	700	Red
ZWC-0603CA-8N5□	8.50	2 / 5 / 10	250	28	4600	0.109	700	Red
ZWC-0603CA-8N7□	8.70	2 / 5	250	28	4600	0.109	700	White
ZWC-0603CA-9N5□	9.50	2 / 5	250	28	5400	0.135	700	Black
ZWC-0603CA-10N□	10	2 / 5	250	31	4800	0.130	700	Brown
ZWC-0603CA-11N□	11	2 / 5	250	33	4000	0.086	700	Red
ZWC-0603CA-12N□	12	2 / 5	250	35	4000	0.130	700	Orange
ZWC-0603CA-14N□	14	2 / 5	250	35	4000	0.170	700	Brown
ZWC-0603CA-15N□	15	2 / 5	250	35	4000	0.170	700	Yellow
ZWC-0603CA-16N□	16	2 / 5	250	34	3300	0.104	700	Green
ZWC-0603CA-18N□	18	2 / 5	250	35	3100	0.170	700	Blue
ZWC-0603CA-22N□	22	2 / 5	250	38	3000	0.190	700	Violet
ZWC-0603CA-24N□	24	2 / 5	250	37	2650	0.135	700	Gray
ZWC-0603CA-27N□	27	2 / 5	250	40	2800	0.220	600	White
ZWC-0603CA-30N□	30	2 / 5	250	37	2250	0.144	600	Black
ZWC-0603CA-33N□	33	2 / 5	250	40	2300	0.220	600	Brown
ZWC-0603CA-36N□	36	2 / 5	250	38	2080	0.250	600	Red
ZWC-0603CA-39N□	39	2 / 5	250	40	2200	0.250	600	Orange
ZWC-0603CA-43N□	43	2 / 5	250	39	2000	0.280	600	Yellow
ZWC-0603CA-47N□	47	2 / 5	200	38	2000	0.280	600	Green
ZWC-0603CA-56N□	56	2 / 5	200	38	1900	0.310	600	Blue
ZWC-0603CA-68N□	68	2 / 5	200	37	1700	0.340	600	Violet
ZWC-0603CA-72N□	72	2 / 5	150	34	1700	0.490	400	Gray
ZWC-0603CA-82N□	82	2 / 5	150	34	1700	0.540	400	White
ZWC-0603CA-91N□	91	2 / 5	150	34	1700	0.560	400	Violet
ZWC-0603CA-R10□	100	2 / 5	150	34	1400	0.580	400	Black
ZWC-0603CA-R11□	110	2 / 5	150	32	1350	0.610	300	Brown
ZWC-0603CA-R12□	120	2 / 5	150	32	1300	0.650	300	Red

Note : Tolerance : G = $\pm 2\%$, J = $\pm 5\%$, K = $\pm 10\%$.

COIL SPECIFICATION



Brand ZenithTek
Product Series Code ZWC - Series
File Version V1.2
Description Wire Wound Ceramic Chip Inductor



Electrical Characteristic

Part Number	Inductance (nH)	Tolerance (%)	Test Frequency (MHz)	Q(MHz) (Min.)	SRF(MHz) (Min.)	DCR(Ω) (Max.)	IDC(mA) (Max.)	COLOR CODE
ZWC-0603CA-R15□	150	2 / 5	150	28	990	0.920	280	Orange
ZWC-0603CA-R18□	180	2 / 5	100	25	990	1.250	240	Yellow
ZWC-0603CA-R20□	200	2 / 5	100	25	1200	1.500	250	Blue
ZWC-0603CA-R22□	220	2 / 5	100	25	900	1.900	200	Green
ZWC-0603CA-R27□	270	2 / 5	100	24	900	2.300	170	Blue
ZWC-0603CA-R33□	330	2 / 5	100	24	900	3.900	185	Violet
ZWC-0603CA-R39□	390	2 / 5	100	25	900	4.350	100	Gray
ZWC-0603CA-R47□	470	2 / 5	100	25	600	4.350	100	White

Note : Tolerance : G = $\pm 2\%$, J = $\pm 5\%$, K = $\pm 10\%$.

COIL SPECIFICATION



ZenithTek

Brand

ZenithTek

Product Series Code

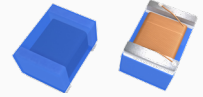
ZWC - Series

File Version

V1.2

Description

Wire Wound Ceramic Chip Inductor



Electrical Characteristic

Part Number	Inductance (nH)	Tolerance (%)	L-Test Frequency (MHz)	Q (Min.)	Q-Test Frequency (MHz)	SRF(MHz) (Min.)	DCR(Ω) (Max.)	IDC(mA) (Max.)	COLOR CODE
ZWC-0805CA-3N0□	3.00	5 / 10	250	50	1500	7900	0.080	600	Black
ZWC-0805CA-5N6□	5.60	5 / 10	250	65	1000	5500	0.080	600	Violet
ZWC-0805CA-6N8□	6.80	5 / 10	250	50	1000	5500	0.110	600	Brown
ZWC-0805CA-7N5□	7.50	2 / 5 / 10	250	50	1000	4500	0.140	600	Black
ZWC-0805CA-8N2□	8.20	2 / 5 / 10	250	50	1000	4700	0.120	600	Red
ZWC-0805CA-10N□	10	2 / 5 / 10	250	60	500	4200	0.100	600	Red
ZWC-0805CA-12N□	12	2 / 5 / 10	250	50	500	4000	0.150	600	Orange
ZWC-0805CA-15N□	15	2 / 5 / 10	250	50	500	3400	0.170	600	Yellow
ZWC-0805CA-18N□	18	2 / 5 / 10	250	50	500	3300	0.200	600	Green
ZWC-0805CA-22N□	22	2 / 5 / 10	250	55	500	2600	0.220	500	Blue
ZWC-0805CA-24N□	24	2 / 5 / 10	250	50	500	2000	0.220	500	Red
ZWC-0805CA-27N□	27	2 / 5 / 10	250	55	500	2500	0.250	500	Violet
ZWC-0805CA-33N□	33	2 / 5 / 10	250	60	500	2050	0.270	500	Gray
ZWC-0805CA-36N□	36	2 / 5 / 10	250	55	500	1700	0.270	500	Yellow
ZWC-0805CA-39N□	39	2 / 5 / 10	250	60	500	2000	0.290	500	White
ZWC-0805CA-43N□	43	2 / 5 / 10	200	60	500	1650	0.340	500	Yellow
ZWC-0805CA-47N□	47	2 / 5 / 10	200	60	500	1650	0.310	500	Black
ZWC-0805CA-56N□	56	2 / 5 / 10	200	60	500	1550	0.340	500	Brown
ZWC-0805CA-66N□	66	2 / 5 / 10	200	60	500	1450	0.380	500	Violet
ZWC-0805CA-68N□	68	2 / 5 / 10	200	60	500	1450	0.380	500	Red
ZWC-0805CA-82N□	82	2 / 5 / 10	150	65	500	1300	0.420	400	Orange
ZWC-0805CA-91N□	91	2 / 5 / 10	150	65	500	1200	0.480	400	Blue
ZWC-0805CA-R10□	100	2 / 5 / 10	150	65	500	1200	0.460	400	Yellow
ZWC-0805CA-R12□	120	2 / 5 / 10	150	50	250	1100	0.510	400	Green
ZWC-0805CA-R15□	150	2 / 5 / 10	100	50	250	920	0.560	400	Blue
ZWC-0805CA-R18□	180	2 / 5 / 10	100	50	250	870	0.640	400	Violet
ZWC-0805CA-R22□	220	2 / 5 / 10	100	50	250	850	0.700	400	Gray
ZWC-0805CA-R24□	240	2 / 5 / 10	100	44	250	690	1.000	350	Black
ZWC-0805CA-R27□	270	2 / 5 / 10	100	48	250	650	1.000	350	White
ZWC-0805CA-R30□	300	2 / 5 / 10	150	25	250	450	1.400	300	Gray
ZWC-0805CA-R33□	330	2 / 5 / 10	100	48	250	600	1.400	310	Black
ZWC-0805CA-R39□	390	2 / 5 / 10	100	48	250	560	1.500	290	Brown
ZWC-0805CA-R47□	470	2 / 5 / 10	50	33	100	375	1.760	250	Violet
ZWC-0805CA-R56□	560	2 / 5 / 10	25	23	50	340	1.900	230	Orange
ZWC-0805CA-R68□	680	2 / 5 / 10	25	23	50	188	2.200	190	Green
ZWC-0805CA-R75□	750	2 / 5 / 10	25	23	50	215	2.350	180	Blue
ZWC-0805CA-R82□	820	2 / 5 / 10	25	23	50	215	2.350	180	Brown
ZWC-0805CA-1R0□	1000	2 / 5 / 10	25	23	50	260	2.700	170	Black

Note : Tolerance : G = ±2%, J = ±5%, K = ±10%.

COIL SPECIFICATION



ZenithTek

Brand

ZenithTek

Product Series Code

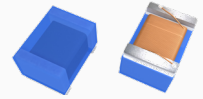
ZWC - Series

File Version

V1.2

Description

Wire Wound Ceramic Chip Inductor



Electrical Characteristic

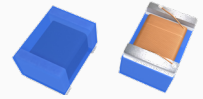
Part Number	Inductance (nH)	Tolerance (%)	L-Test Frequency (MHz)	Q (Min.)	Q-Test Frequency (MHz)	SRF (MHz) (Min.)	DCR (Ω) (Max.)	IDC (mA) (Max.)	COLOR CODE		
									POINT1	POINT2	POINT3
ZWC-1008CA-4N7□	4.70	5 / 10 / 20	50	40	500	4400	0.030	1000	Yellow	Violet	
ZWC-1008CA-10N□	10	5 / 10 / 20	50	50	500	4100	0.080	1000	Brown	Black	Black
ZWC-1008CA-12N□	12	5 / 10 / 20	50	50	500	3300	0.090	1000	Brown	Red	Black
ZWC-1008CA-15N□	15	5 / 10 / 20	50	50	500	2500	0.100	1000	Brown	Green	Black
ZWC-1008CA-18N□	18	2 / 5 / 10 / 20	50	50	350	2500	0.110	1000	Brown	Gray	Black
ZWC-1008CA-22N□	22	2 / 5 / 10 / 20	50	55	350	2400	0.120	1000	Red	Red	Black
ZWC-1008CA-24N□	24	2 / 5 / 10 / 20	50	50	350	1500	0.130	1000	Red	Yellow	Black
ZWC-1008CA-27N□	27	2 / 5 / 10 / 20	50	55	350	1600	0.130	1000	Red	Violet	Black
ZWC-1008CA-33N□	33	2 / 5 / 10 / 20	50	60	350	1600	0.140	1000	Orange	Orange	Black
ZWC-1008CA-39N□	39	2 / 5 / 10 / 20	50	60	350	1500	0.150	1000	Orange	White	Black
ZWC-1008CA-47N□	47	2 / 5 / 10 / 20	50	65	350	1500	0.160	1000	Yellow	Violet	Black
ZWC-1008CA-56N□	56	2 / 5 / 10	50	65	350	1300	0.180	1000	Green	Blue	Black
ZWC-1008CA-68N□	68	2 / 5 / 10	50	65	350	1300	0.200	1000	Blue	Gray	Black
ZWC-1008CA-82N□	82	2 / 5 / 10	50	60	350	1000	0.220	1000	Gray	Red	Black
ZWC-1008CA-R10□	100	2 / 5 / 10	25	60	350	1000	0.560	650	Brown	Black	Brown
ZWC-1008CA-R12□	120	2 / 5 / 10	25	60	350	950	0.630	650	Brown	Red	Brown
ZWC-1008CA-R15□	150	2 / 5 / 10	25	45	100	850	0.700	580	Brown	Green	Brown
ZWC-1008CA-R18□	180	2 / 5 / 10	25	45	100	750	0.770	620	Brown	Gray	Brown
ZWC-1008CA-R20□	200	2 / 5 / 10	25	50	100	750	0.810	500	Red	Black	Brown
ZWC-1008CA-R22□	220	2 / 5 / 10	25	45	100	700	0.840	500	Red	Red	Brown
ZWC-1008CA-R24□	240	2 / 5 / 10	25	50	100	600	0.840	500	Red	Yellow	Brown
ZWC-1008CA-R27□	270	2 / 5 / 10	25	45	100	600	0.910	500	Red	Violet	Brown
ZWC-1008CA-R30□	300	2 / 5 / 10	150	40	100	500	1.050	660	Orange	Black	Brown
ZWC-1008CA-R33□	330	2 / 5 / 10	25	45	100	570	1.050	450	Orange	Orange	Brown
ZWC-1008CA-R36□	360	2 / 5 / 10	150	40	100	500	1.050	660	Orange	Blue	Brown
ZWC-1008CA-R39□	390	2 / 5 / 10	25	45	100	500	1.120	470	Orange	White	Brown
ZWC-1008CA-R43□	430	2 / 5 / 10	150	40	100	425	1.190	600	Yellow	Orange	Brown
ZWC-1008CA-R47□	470	2 / 5 / 10	25	45	100	450	1.190	470	Yellow	Violet	Brown
ZWC-1008CA-R51□	510	2 / 5 / 10	25	45	100	415	1.330	420	Green	Brown	Brown
ZWC-1008CA-R54□	540	2 / 5 / 10	25	45	100	415	1.330	400	Green	Yellow	Brown
ZWC-1008CA-R56□	560	2 / 5 / 10	25	45	100	415	1.330	400	Green	Blue	Brown
ZWC-1008CA-R62□	620	2 / 5 / 10	25	45	100	375	1.400	300	Blue	Red	Brown
ZWC-1008CA-R68□	680	2 / 5 / 10	25	45	100	375	1.470	400	Blue	Gray	Brown
ZWC-1008CA-R75□	750	2 / 5 / 10	25	45	100	360	1.540	360	Violet	Green	Brown
ZWC-1008CA-R82□	820	2 / 5 / 10	25	45	100	350	1.610	400	Gray	Red	Brown
ZWC-1008CA-R91□	910	2 / 5 / 10	25	35	50	320	1.680	380	White	Brown	Brown
ZWC-1008CA-1R0□	1000	2 / 5 / 10	25	35	50	290	1.750	370	Brown	Black	Red
ZWC-1008CA-1R2□	1200	2 / 5 / 10	7.9	35	50	250	2.000	310	Brown	Red	Red
ZWC-1008CA-1R5□	1500	2 / 5 / 10	7.9	28	50	200	2.300	330	Brown	Green	Red
ZWC-1008CA-1R8□	1800	2 / 5 / 10	7.9	28	50	160	2.600	300	Brown	Gray	Red
ZWC-1008CA-2R0□	2000	2 / 5 / 10	7.9	25	50	160	2.800	280	Red	Black	Red
ZWC-1008CA-2R2□	2200	2 / 5 / 10	7.9	28	50	160	2.800	280	Red	Red	Red
ZWC-1008CA-2R7□	2700	2 / 5 / 10	7.9	22	25	140	3.200	290	Red	Violet	Red
ZWC-1008CA-3R3□	3300	2 / 5 / 10	7.9	22	25	110	3.400	290	Orange	Orange	Red

Note : Tolerance : G = ±2%, J = ±5%, K = ±10%, M = ±20%.

COIL SPECIFICATION



Brand ZenithTek
Product Series Code ZWC - Series
File Version V1.2
Description Wire Wound Ceramic Chip Inductor



Electrical Characteristic

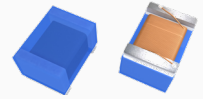
Part Number	Inductance (nH)	Tolerance (%)	L-Test Frequency (MHz)	Q (Min.)	Q-Test Frequency (MHz)	SRF (MHz) (Min.)	DCR (Ω) (Max.)	IDC (mA) (Max.)	COLOR CODE		
									POINT1	POINT2	POINT3
ZWC-1008CA-3R9□	3900	2 / 5 / 10	7.9	20	25	100	3.600	260	Orange	White	Red
ZWC-1008CA-4R7□	4700	2 / 5 / 10	7.9	20	25	90	4.000	260	Yellow	Violet	Red

Note : Tolerance : G = ±2%, J = ±5%, K = ±10%, M = ±20%.

COIL SPECIFICATION



Brand ZenithTek
Product Series Code ZWC - Series
File Version V1.2
Description Wire Wound Ceramic Chip Inductor



Reliability Test

No.	Item	Specification	Test Method
1	Temperature Shock.	Appearance: No damage. Inductance: within $\pm 10\%$ of initial.	Temperature: $-40\pm 2^{\circ}\text{C} \sim +125\pm 2^{\circ}\text{C}$ Kept for 30 minutes. Transition time : 5 minutes. 100 Cycles.
2	Humidity Resistance.	Appearance: No damage. Inductance: within $\pm 10\%$ of initial.	Temperature: $40\pm 2^{\circ}\text{C}$. Relative Humidity: 90%. Duration: 500 +4/-0 hours.
3	High Temperature Resistance.	Appearance: No damage. Inductance: within $\pm 10\%$ of initial.	Temperature: $125\pm 2^{\circ}\text{C}$. Duration: 1000 +4/-0 hours.
4	Low Temperature Resistance.	Appearance: No damage. Inductance: within $\pm 10\%$ of initial.	Temperature: $-40\pm 2^{\circ}\text{C}$. Duration: 1000 +4/-0 hours.
5	Vibration test.	Appearance: No damage. Inductance: within $\pm 10\%$ of initial.	Oscillation Frequency: 10Hz to 55Hz to 10Hz in 60 seconds as a period. Total amplitude: 1.5mm. Testing Time: a period of 2 hours in each 3 mutually perpendicular directions (total of 6 hours).
6	Solderability Heat test.	Appearance: No damage. Inductance: within $\pm 10\%$ of initial.	Solder temperature: $260 +0/-5^{\circ}\text{C}$. Duration: 5 sec. Allowed reflow time: 2 times.
7	Solderability test.	90% or more of electrode area shall be coated by new solder.	Preheating: 160°C , 60sec. Solder temperature: $245\pm 5^{\circ}\text{C}$. Duration : 5 sec.
8	Flexure Strength.	No visible mechanical damage.	Flexure: 2mm. Pressurizing Speed: 0.5mm/sec. Keep time: 30 ± 1 sec.
9	Terminal Strength.	No visible mechanical damage.	Force: 0.45Kg for 0603 series. Force: 0.9Kg for 0805 series. Force: 1.8Kg for 1008 series above. Keep time: 5 sec › X,Y directs.

COIL SPECIFICATION



ZenithTek

Brand

ZenithTek

Product Series Code

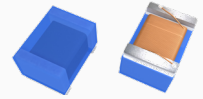
ZWC - Series

File Version

V1.2

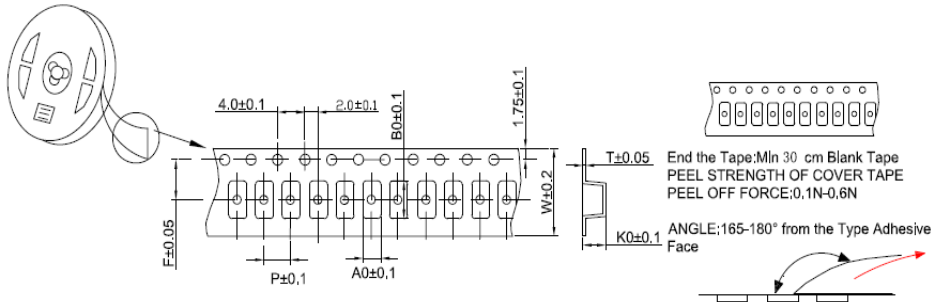
Description

Wire Wound Ceramic Chip Inductor



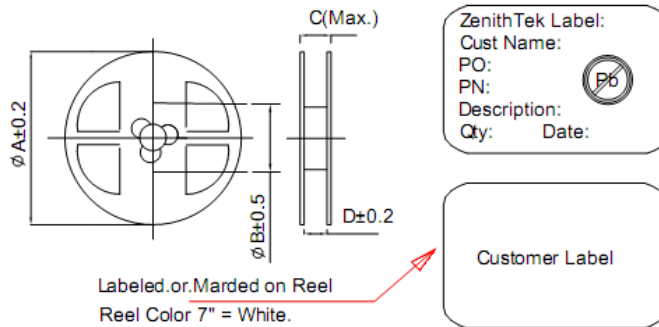
Package

Taping Dimension (mm)



Size(mm)	W	P	A0	B0	K0	T	F
ZWC-0402	8.00	2.00	0.67	1.20	0.53	0.75	3.50
ZWC-0603	8.00	4.00	1.07	1.88	1.07	0.25	3.50
ZWC-0805	8.00	4.00	1.93	2.39	1.38	0.25	3.50
ZWC-1008	8.00	4.00	2.73	2.90	2.34	0.25	3.50

Reel Dimension (mm)



Size(mm)	A	B	C	D	Reel/Size	Qty./Size
ZWC-0402	178	50	14.4	8.4	7"	4000 Pcs
ZWC-0603	178	50	12.5	8.4	7"	4000 Pcs
ZWC-0805	178	50	12.5	8.4	7"	3000 Pcs
ZWC-1008	178	50	12.5	8.4	7"	2000 Pcs

Box Dimension (mm)

