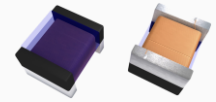


COIL SPECIFICATION



ZenithTek

Brand **ZenithTek**
 Product Series Code **ZWS - Series**
 File Version **V1.3**
 Description **Wire Wound High Q Chip Inductor**



Features

- Ferrite, Wire-Wound Construction.
- High Q Value.
- Wide Inductance Range.
- Halogen Free, Lead Free, RoHS and REACH Compliance.

Product Identification

ZWS - 1210 - 100 K

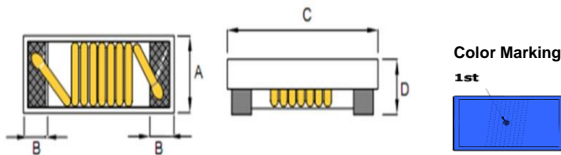
1 2 3 4

Applications

- Fit for Signal Line Circuit Inductor Applications.

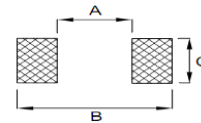
- 1.Product Code: ZWS = ZenithTek Code.
 2.Dimension Code: 1210 = 3.60 * 2.90 * 2.50 mm.
 3.Inductance Code: 100 = 10μH.
 4.Tolerance Code: K = 10%.

Dimension (Unit: mm)



Type	A(Max.)	B(Ref.)	C(Max.)	D(Max.)
ZWS-0603	1.20	0.33 ± 0.1	1.80	1.10
ZWS-0805	1.65	0.44	2.40	1.20± 0.10
ZWS-1008	2.54	0.50± 0.1	2.90	2.03
ZWS-1210	2.90	0.50± 0.1	3.60	2.50

Land Pattern (Unit: mm)



Type	A(Ref.)	B(Ref.)	C(Ref.)
ZWS-0603	0.64	1.92	1.02
ZWS-0805	0.76	2.80	1.78
ZWS-1008	1.27	3.31	2.54
ZWS-1210	2.00	4.40	2.70

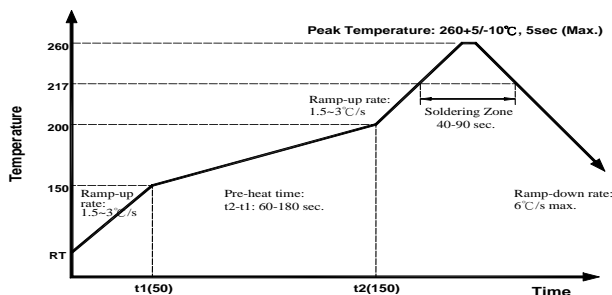
Product Structure



Schematic



Reflow Heat Endurance



Operating & Storage Conditions

Operating Temp. : -25°C~+105°C (including self-temp. rise)
 Storage Temp. : -25°C~+105°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

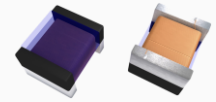
HP4284A, HOKIO3532-50 - IDC, L.
 HP4191A - Impedance.
 TH2512B - RDC.

COIL SPECIFICATION



ZenithTek

Brand **ZenithTek**
 Product Series Code **ZWS - Series**
 File Version **V1.3**
 Description **Wire Wound High Q Chip Inductor**



Electrical Characteristic

Part Number	Inductance (μH)	Tolerance (%)	Q Value (Min.)	Test Frequency (MHz)	SRF(MHz) (Min.)	DCR(Ω) (Max.)	IDC(mA) (Max.)	Irms(mA) (Typ.)	Color Marking
ZWS-0603-47N□	0.047	5 / 10	12	7.9	2000	0.075	1800	1600	White
ZWS-0603-51N□	0.051	5 / 10	12	7.9	1500	0.075	1800	1500	Violet
ZWS-0603-56N□	0.056	5 / 10	7	7.9	1500	0.095	2200	1600	Blue
ZWS-0603-68N□	0.068	10	10	7.9	1500	0.12	2200	1700	Gray
ZWS-0603-72N□	0.072	10	12	7.9	1500	0.12	2200	1600	Brown
ZWS-0603-R10□	0.10	5 / 10	12	7.9	1150	0.13	2200	1300	Black
ZWS-0603-R12□	0.12	5 / 10	12	7.9	1100	0.15	1900	1300	Orange
ZWS-0603-R15□	0.15	5 / 10	15	7.9	1050	0.15	1800	1100	Brown
ZWS-0603-R18□	0.18	5 / 10	15	7.9	950	0.15	1800	1100	Green
ZWS-0603-R22□	0.22	5 / 10	15	7.9	900	0.30	1300	990	Red
ZWS-0603-R24□	0.24	5 / 10	15	7.9	850	0.16	1700	1100	Green
ZWS-0603-R27□	0.27	5 / 10	15	7.9	835	0.30	1400	1000	Yellow
ZWS-0603-R33□	0.33	5 / 10	15	7.9	725	0.40	1300	1000	Orange
ZWS-0603-R36□	0.36	5 / 10	15	7.9	720	0.41	1300	990	Green
ZWS-0603-R39□	0.39	5 / 10	15	7.9	680	0.41	1200	990	Blue
ZWS-0603-R47□	0.47	5 / 10	15	7.9	640	0.43	1200	860	Black
ZWS-0603-R56□	0.56	5 / 10	15	7.9	630	0.44	1200	860	Brown
ZWS-0603-R65□	0.65	5 / 10	15	7.9	510	0.52	1000	810	Blue
ZWS-0603-R68□	0.68	5 / 10	15	7.9	510	0.52	1000	780	Red
ZWS-0603-R78□	0.78	5 / 10	15	7.9	465	0.63	990	780	Orange
ZWS-0603-R82□	0.82	5 / 10	15	7.9	460	0.69	990	760	Yellow
ZWS-0603-R90□	0.90	5 / 10	15	7.9	350	0.81	950	700	Black
ZWS-0603-1R0□	1.00	5 / 10	15	7.9	320	0.81	850	700	Green
ZWS-0603-1R2□	1.20	5 / 10	15	7.9	270	0.87	850	590	Blue
ZWS-0603-1R5□	1.50	5 / 10	15	7.9	230	0.96	830	570	Violet
ZWS-0603-1R8□	1.80	5 / 10	15	7.9	210	1.10	820	540	Gray
ZWS-0603-2R2□	2.20	5 / 10	15	7.9	115	1.20	720	540	White
ZWS-0603-2R7□	2.70	5 / 10	15	7.9	100	1.38	700	460	Black
ZWS-0603-3R0□	3.00	5 / 10	15	7.9	90	1.45	680	430	Black
ZWS-0603-3R3□	3.30	5 / 10	15	7.9	84	1.50	640	480	Brown
ZWS-0603-3R9□	3.90	5 / 10	15	7.9	75	1.50	630	480	Red
ZWS-0603-4R7□	4.70	5 / 10	15	7.9	67	2.10	530	380	Orange
ZWS-0603-5R6□	5.60	5 / 10	15	7.9	55	2.37	510	360	Yellow
ZWS-0603-6R8□	6.80	5 / 10	15	7.9	48	3.10	490	350	Green

Note 1: Tolerance Code: J= ±5%, K= ±10%.

Note 2: Test Instruments :

L,Q,SRF : Agilent/HP E4991A+Agilent/HP 16197A.

(The electrical specification test by the smallest gap position) or HP16193A

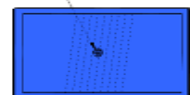
RDC : Digital Milliohm Meter Chroma 16502 or equivalent.

Note 3: IDC for Inductance drop 35% from its value without current.

Note 4: I rms for 40°C rise above 25°C ambient.

Color Marking

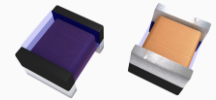
1st



COIL SPECIFICATION



Brand ZenithTek
Product Series Code ZWS - Series
File Version V1.3
Description Wire Wound High Q Chip Inductor



Electrical Characteristic

Part Number	Inductance (μH)	Tolerance (%)	Q Value (Min.)	Test Frequency (MHz)	SRF(MHz) (Min.)	DCR(Ω) (Max.)	IDC(mA) (Max.)	Irms(mA) (Typ.)	Color Marking
ZWS-0603-7R8□	7.80	5 / 10	15	7.9	40	3.35	420	320	Blue
ZWS-0603-8R2□	8.20	5 / 10	15	7.9	38	3.50	450	320	Violet
ZWS-0603-100□	10	5 / 10	15	7.9	32	4.46	370	280	Gray
ZWS-0603-150□	15	5 / 10	14	7.9	25	9.50	240	170	White

Note 1: Tolerance Code: J= ±5%, K= ±10%.

Note 2: Test Instruments :

L,Q,SRF : Agilent/HP E4991A+Agilent/HP 16197A.

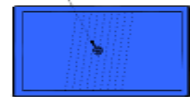
(The electrical specification test by the smallest gap position) or HP16193A

RDC : Digital Milliohm Meter Chroma 16502 or equivalent.

Note 3: IDC for Inductance drop 35% from its value without current.

Note 4: I rms for 40°C rise above 25°C ambient.

Color Marking
1st

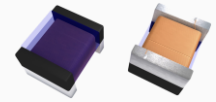


COIL SPECIFICATION



ZenithTek

Brand **ZenithTek**
 Product Series Code **ZWS - Series**
 File Version **V1.3**
 Description **Wire Wound High Q Chip Inductor**



Electrical Characteristic

Part Number	Inductance (μH)	Tolerance (%)	Q Value (Min.)	Test Frequency (MHz)	SRF(MHz) (Min.)	DCR(Ω) (Max.)	IDC(mA) (Max.)	Color Marking
ZWS-0805-78N□	0.078	5 / 10	13	7.9	1500	0.076	2000	Gray
ZWS-0805-R10□	0.10	10	20	25	1400	0.10	1700	White
ZWS-0805-R11□	0.11	10	25	25	1200	0.10	1700	White
ZWS-0805-R12□	0.12	5 / 10	25	25	1000	0.18	1500	Violet
ZWS-0805-R15□	0.15	5 / 10	25	25	1000	0.18	1400	Gray
ZWS-0805-R18□	0.18	5 / 10	30	25	1000	0.20	1400	Black
ZWS-0805-R22□	0.22	5 / 10	30	25	830	0.25	1350	Brown
ZWS-0805-R27□	0.27	5 / 10	30	25	800	0.38	1300	Red
ZWS-0805-R33□	0.33	5 / 10	30	25	750	0.35	1200	Orange
ZWS-0805-R39□	0.39	5 / 10	30	25	700	0.35	1160	Yellow
ZWS-0805-R47□	0.47	5 / 10	30	25	690	0.40	1100	Green
ZWS-0805-R56□	0.56	5 / 10	30	25	640	0.40	1040	Blue
ZWS-0805-R62□	0.62	5 / 10	30	25	640	0.45	980	Brown
ZWS-0805-R68□	0.68	5 / 10	30	25	510	0.50	900	Violet
ZWS-0805-R75□	0.75	5 / 10	30	25	500	0.50	900	Violet
ZWS-0805-R82□	0.82	5 / 10	30	25	500	0.50	900	Gray
ZWS-0805-R91□	0.91	5 / 10	30	25	500	0.55	900	Yellow
ZWS-0805-1R0□	1.00	5 / 10	20	7.9	470	0.50	840	White
ZWS-0805-1R2□	1.20	5 / 10	20	7.9	400	0.75	800	Black
ZWS-0805-1R5□	1.50	5 / 10	25	7.9	400	1.00	720	Brown
ZWS-0805-1R8□	1.80	5 / 10	25	7.9	230	1.00	660	Red
ZWS-0805-2R2□	2.20	5 / 10	25	7.9	200	1.05	600	Orange
ZWS-0805-2R7□	2.70	5 / 10	25	7.9	130	1.18	500	Yellow
ZWS-0805-3R3□	3.30	5 / 10	25	7.9	160	1.26	480	Green
ZWS-0805-3R9□	3.90	5 / 10	25	7.9	130	1.75	440	Blue
ZWS-0805-4R7□	4.70	5 / 10	25	7.9	120	1.87	390	Violet
ZWS-0805-5R6□	5.60	5 / 10	25	7.9	90	2.00	340	Gray
ZWS-0805-6R8□	6.80	5 / 10	25	7.9	55	2.15	300	White
ZWS-0805-8R2□	8.20	5 / 10	25	7.9	40	2.37	280	Black
ZWS-0805-100□	10	5 / 10	16	2.5	40	2.55	260	Brown
ZWS-0805-120□	12	5 / 10	16	2.5	37	2.80	220	Red
ZWS-0805-150□	15	5 / 10	16	2.5	30	3.80	200	Orange
ZWS-0805-180□	18	5 / 10	16	2.5	23	4.48	180	Yellow
ZWS-0805-220□	22	5 / 10	16	2.5	20	6.30	160	Green
ZWS-0805-270□	27	5 / 10	16	2.5	19	6.85	140	Blue
ZWS-0805-330□	33	5 / 10	16	2.5	18	7.60	120	Violet
ZWS-0805-390□	39	5 / 10	15	2.5	16	8.20	100	Gray
ZWS-0805-470□	47	5 / 10	13	2.5	13	13.10	60	White

Note 1: Tolerance Code: J= ±5%, K= ±10%.

Note 2: Test Instruments :

L,Q,SRF : Agilent/HP E4991A+Agilent/HP 16197A.

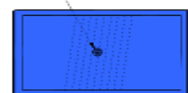
(The electrical specification test by the smallest gap position) or HP16193A

RDC : Digital Milliohm Meter Chroma 16502 or equivalent.

Note 3: IDC for Inductance drop 10% from its value without current or the temperature rising 25°C above the ambient temperature ; whichever is smaller.

Color Marking

1st

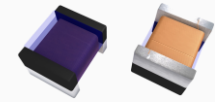


COIL SPECIFICATION



ZenithTek

Brand **ZenithTek**
 Product Series Code **ZWS - Series**
 File Version **V1.3**
 Description **Wire Wound High Q Chip Inductor**



Electrical Characteristic

Part Number	Inductance (μH)	Tolerance (%)	Q Value (Min.)	Test Frequency (MHz)	SRF(MHz) (Min.)	DCR(Ω) (Max.)	IDC(mA) (Max.)	Color Marking		
ZWS-1008-R10□	0.10	10	25	25	930	0.20	1300	Brown	Black	Brown
ZWS-1008-R12□	0.12	5 / 10	26	25	930	0.30	1000	Brown	Red	Brown
ZWS-1008-R15□	0.15	5 / 10	26	25	930	0.30	1000	Brown	Green	Brown
ZWS-1008-R18□	0.18	5 / 10	30	25	930	0.30	960	Brown	Gray	Brown
ZWS-1008-R20□	0.20	5 / 10	30	25	735	0.30	960	Red	Black	Brown
ZWS-1008-R22□	0.22	5 / 10	27	25	750	0.40	880	Red	Red	Brown
ZWS-1008-R27□	0.27	5 / 10	29	25	700	0.42	900	Red	Violet	Brown
ZWS-1008-R33□	0.33	5 / 10	30	25	600	0.42	900	Orange	Orange	Brown
ZWS-1008-R39□	0.39	5 / 10	30	25	480	0.45	920	Orange	White	Brown
ZWS-1008-R47□	0.47	5 / 10	30	25	470	0.50	920	Yellow	Violet	Brown
ZWS-1008-R56□	0.56	5 / 10	30	25	460	0.55	900	Green	Blue	Brown
ZWS-1008-R62□	0.62	5 / 10	30	25	460	0.55	900	Blue	Red	Brown
ZWS-1008-R68□	0.68	5 / 10	30	25	420	0.55	880	Blue	Gray	Brown
ZWS-1008-R75□	0.75	5 / 10	30	25	420	0.65	880	Violet	Green	Brown
ZWS-1008-R82□	0.82	5 / 10	30	25	380	0.65	840	Gray	Red	Brown
ZWS-1008-R91□	0.91	5 / 10	30	25	400	0.65	840	White	Brown	Brown
ZWS-1008-1R0□	1.00	5 / 10	25	7.9	300	0.60	800	Brown	Black	Red
ZWS-1008-1R2□	1.20	5 / 10	25	7.9	280	0.74	800	Brown	Red	Red
ZWS-1008-1R5□	1.50	5 / 10	25	7.9	245	0.85	780	Brown	Green	Red
ZWS-1008-1R8□	1.80	5 / 10	25	7.9	240	0.92	780	Brown	Gray	Red
ZWS-1008-2R2□	2.20	5 / 10	25	7.9	205	1.10	760	Red	Red	Red
ZWS-1008-2R7□	2.70	5 / 10	25	7.9	187	1.22	760	Red	Violet	Red
ZWS-1008-3R3□	3.30	5 / 10	25	7.9	165	1.37	740	Orange	Orange	Red
ZWS-1008-3R9□	3.90	5 / 10	25	7.9	144	1.66	700	Orange	White	Red
ZWS-1008-4R7□	4.70	5 / 10	25	7.9	110	1.68	660	Yellow	Violet	Red
ZWS-1008-5R6□	5.60	5 / 10	25	7.9	88	1.75	640	Green	Blue	Red
ZWS-1008-6R8□	6.80	5 / 10	25	7.9	70	1.85	640	Blue	Gray	Red
ZWS-1008-8R2□	8.20	5 / 10	25	7.9	57	2.00	600	Gray	Red	Red
ZWS-1008-100□	10	5 / 10	25	7.9	55	2.32	600	Brown	Black	Orange
ZWS-1008-120□	12	5 / 10	15	2.5	52	2.99	560	Brown	Red	Orange
ZWS-1008-150□	15	5 / 10	15	2.5	49	3.42	480	Brown	Green	Orange
ZWS-1008-180□	18	5 / 10	15	2.5	48	4.65	420	Brown	Gray	Orange
ZWS-1008-220□	22	5 / 10	15	2.5	25	5.12	420	Red	Red	Orange
ZWS-1008-270□	27	5 / 10	15	2.5	23	5.76	420	Red	Violet	Orange
ZWS-1008-330□	33	5 / 10	15	2.5	17	6.44	400	Orange	Orange	Orange
ZWS-1008-390□	39	5 / 10	15	2.5	15	6.85	380	Orange	White	Orange
ZWS-1008-470□	47	5 / 10	14	2.5	13	9.94	260	Yellow	Violet	Orange
ZWS-1008-560□	56	5 / 10	14	2.5	10	10.70	280	Green	Blue	Orange
ZWS-1008-680□	68	5 / 10	14	2.5	8	12.80	260	Blue	Gray	Orange
ZWS-1008-820□	82	5 / 10	14	2.5	8	18.30	240	Gray	Red	Orange
ZWS-1008-101□	100	5 / 10	8	1.0	7	19.60	200	Brown	Black	Yellow

Note 1: Tolerance Code: J= ±5%, K= ±10%.

Note 2: Test Instruments :

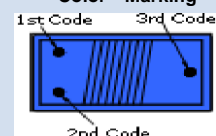
L,Q,SRF : Agilent/HP E4991A+Agilent/HP 16197A.

(The electrical specification test by the smallest gap position) or HP16193A

RDC : Digital Milliohm Meter Chroma 16502 or equivalent.

Note 3: IDC for Inductance drop 10% from its value without current or the temperature rising 25°C above the ambient temperature ; whichever is smaller.

Color Marking

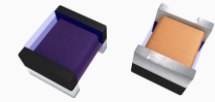


COIL SPECIFICATION



ZenithTek

Brand **ZenithTek**
 Product Series Code **ZWS - Series**
 File Version **V1.3**
 Description **Wire Wound High Q Chip Inductor**



Electrical Characteristic

Part Number	Inductance (μH)	Tolerance (%)	Q Value (Min.)	Test Frequency (MHz)	SRF(MHz) (Typ.)	DCR(Ω) (Max.)	IDC(mA) (Max.)	Color Marking		
ZWS-1210-R12□	0.12	10	40	25	1000	0.07	2000	Brown	Red	Brown
ZWS-1210-R18□	0.18	5 / 10	40	25	900	0.12	1900	Brown	Gray	Brown
ZWS-1210-R22□	0.22	5 / 10	40	25	600	0.18	1700	Red	Red	Brown
ZWS-1210-R27□	0.27	5 / 10	40	25	600	0.23	1600	Red	Violet	Brown
ZWS-1210-R29□	0.29	5 / 10	40	25	550	0.25	1550	Red	White	Brown
ZWS-1210-R33□	0.33	5 / 10	40	25	500	0.27	1500	Orange	Orange	Brown
ZWS-1210-R39□	0.39	5 / 10	40	25	500	0.30	1500	Orange	White	Brown
ZWS-1210-R56□	0.56	5 / 10	35	25	440	0.35	1400	Green	Blue	Brown
ZWS-1210-R82□	0.82	5 / 10	35	25	340	0.38	1300	Gray	Red	Brown
ZWS-1210-1R0□	1.00	5 / 10	35	7.9	320	0.42	1200	Brown	Black	Red
ZWS-1210-1R2□	1.20	5 / 10	35	7.9	280	0.47	1100	Brown	Red	Red
ZWS-1210-1R5□	1.50	5 / 10	35	7.9	250	0.50	1100	Brown	Green	Red
ZWS-1210-1R8□	1.80	5 / 10	40	7.9	203	0.62	1000	Brown	Gray	Red
ZWS-1210-2R2□	2.20	5 / 10	33	7.9	200	0.65	1000	Red	Red	Red
ZWS-1210-2R7□	2.70	5 / 10	40	7.9	200	0.65	1000	Red	Violet	Red
ZWS-1210-3R0□	3.00	5 / 10	40	7.9	180	0.78	800	Orange	Black	Red
ZWS-1210-3R3□	3.30	5 / 10	30	7.9	146	0.83	1200	Orange	Orange	Red
ZWS-1210-3R9□	3.90	5 / 10	30	7.9	139	1.74	900	Orange	White	Red
ZWS-1210-4R7□	4.70	5 / 10	35	7.9	124	1.90	800	Yellow	Violet	Red
ZWS-1210-5R6□	5.60	5 / 10	30	7.9	114	2.05	700	Green	Blue	Red
ZWS-1210-6R8□	6.80	5 / 10	30	7.9	109	1.37	450	Blue	Gray	Red
ZWS-1210-8R2□	8.20	5 / 10	30	7.9	90	1.60	600	Gray	Red	Red
ZWS-1210-100□	10	5 / 10	23	2.5	90	1.70	590	Brown	Black	Orange
ZWS-1210-120□	12	5 / 10	23	2.5	67	2.12	420	Brown	Red	Orange
ZWS-1210-150□	15	5 / 10	25	2.5	67	2.22	340	Brown	Green	Orange
ZWS-1210-180□	18	5 / 10	25	2.5	57	2.42	330	Brown	Gray	Orange
ZWS-1210-220□	22	5 / 10	25	2.5	48	2.66	300	Red	Red	Orange
ZWS-1210-270□	27	5 / 10	25	2.5	38	2.99	250	Red	Violet	Orange
ZWS-1210-330□	33	5 / 10	25	2.5	26	3.24	220	Orange	Orange	Orange
ZWS-1210-390□	39	5 / 10	25	2.5	24	3.61	195	Orange	White	Orange
ZWS-1210-470□	47	5 / 10	25	2.5	22	3.96	195	Yellow	Violet	Orange
ZWS-1210-560□	56	5 / 10	25	2.5	20	4.36	190	Green	Blue	Orange
ZWS-1210-680□	68	5 / 10	23	2.5	15	4.50	340	Blue	Gray	Orange
ZWS-1210-820□	82	5 / 10	23	2.5	15	5.95	280	Gray	Red	Orange

Note 1: Tolerance Code: J= ±5%, K= ±10%.

Note 2: Test Instruments :

L,Q,SRF : Agilent/HP E4991A+Agilent/HP 16197A.

RDC : Digital Milliohm Meter Chroma 16502 or equivalent.

Note 3: IDC for Inductance drop 10% from its value without current or the temperature rising 25°C above the ambient temperature ; whichever is smaller.

Color Marking

1st Code 3rd Code

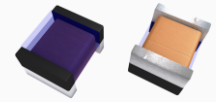


2nd Code

COIL SPECIFICATION



Brand ZenithTek
Product Series Code ZWS - Series
File Version V1.3
Description Wire Wound High Q Chip Inductor



Electrical Characteristic

Part Number	Inductance (μH)	Tolerance (%)	Q Value (Min.)	Test Frequency (MHz)	SRF(MHz) (Typ.)	DCR(Ω) (Max.)	IDC(mA) (Max.)	Color Marking
ZWS-1210-101□	100	5 / 10	15	1	14	6.62	250	Brown Black Yellow
ZWS-1210-121□	120	5 / 10	15	1	11	7.53	190	Brown Red Yellow
ZWS-1210-151□	150	5 / 10	15	1	11	8.29	135	Brown Green Yellow
ZWS-1210-181□	180	5 / 10	15	1	10	11.53	100	Brown Gray Yellow
ZWS-1210-221□	220	5 / 10	15	1	8	12.48	80	Red Red Yellow

Note 1: Tolerance Code: J= ±5%, K= ±10%.

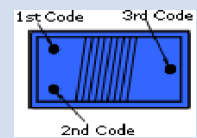
Note 2: Test Instruments :

L,Q,SRF : Agilent/HP E4991A+Agilent/HP 16197A.

RDC : Digital Milliohm Meter Chroma 16502 or equivalent.

Note 3: IDC for Inductance drop 10% from its value without current or the temperature rising 25°C above the ambient temperature ; whichever is smaller.

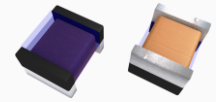
Color Marking



COIL SPECIFICATION



Brand ZenithTek
Product Series Code ZWS - Series
File Version V1.3
Description Wire Wound High Q Chip Inductor



Reliability Test

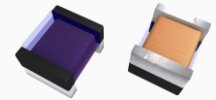
No.	Item	Specification	Test Method
1	Temperature Shock.	Appearance: No damage. Inductance: within $\pm 10\%$ of initial.	Temperature: $-25\pm 2^{\circ}\text{C} \sim +105\pm 2^{\circ}\text{C}$ Kept for 30 minutes. Transition time : 5 minutes. 100 Cycles.
2	Humidity Resistance.	Appearance: No damage. Inductance: 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: $105\pm 2^{\circ}\text{C}$. Duration: 1000 +4/-0 hours.
4	Low Temperature Resistance.	Appearance: No damage. Inductance: within $\pm 10\%$ of initial.	Temperature: $-25\pm 2^{\circ}\text{C}$. 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 \cdot X,Y directs.

COIL SPECIFICATION



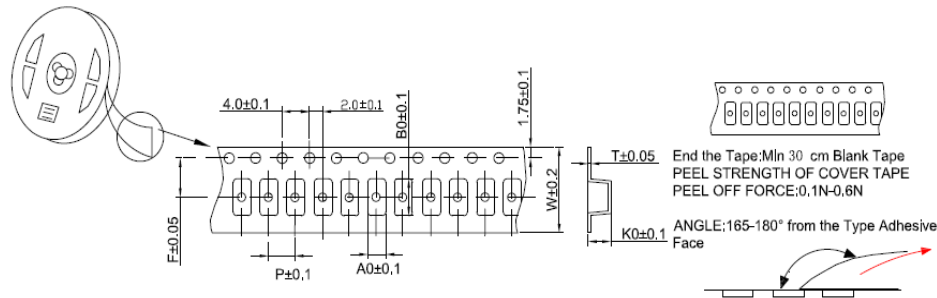
ZenithTek

Brand **ZenithTek**
 Product Series Code **ZWS - Series**
 File Version **V1.3**
 Description **Wire Wound High Q Chip Inductor**



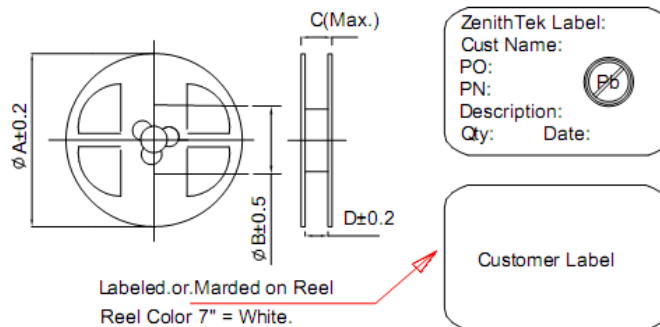
Package

Taping Dimension (mm)



Size(mm)	W	P	A0	B0	K0	T	F
ZWS-0603	8.00	4.00	1.25	1.90	1.05	0.22	3.50
ZWS-0805	8.00	4.00	1.65	2.40	1.30	0.22	3.50
ZWS-1008	8.00	4.00	2.50	2.85	2.00	0.22	3.50
ZWS-1210	8.00	4.00	2.88	3.72	2.50	0.26	5.50

Reel Dimension (mm)



Size(mm)	A	B	C	D	Reel/Size	Qty./Size
ZWS-0603	180	60	14.4	8.4	7"	4000 Pcs
ZWS-0805	180	60	14.4	8.4	7"	2000 Pcs
ZWS-1008	180	60	14.4	8.4	7"	2000 Pcs
ZWS-1210	180	60	14.4	8.4	7"	2000 Pcs

Box Dimension (mm)

