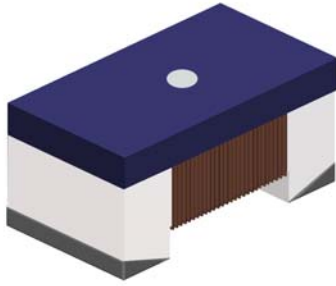


Wire Wound Chip Inductor – WL Series



Feature

- Wire wound Ceramic Construction Provide High SRFs
- Ultra-compact Inductors Provide Exceptional Q Values
- Low profile , High Current are Available
- Miniature SMD Chip Inductor for Fully Automated Assembly
- Outstanding Endurance from Pull-up Force, Mechanical Shock and Pressure
- Tighter Tolerance of $\pm 2\%$
- Smaller Size of 0402 (1005)

Application

RF Products:

- Cellular Phone (CDMA/GSM/PHS)
- Cordless Phone (DECT/CT1CT2)
- Remote Control, Security System
- Wireless PDA
- WLL, Wireless LAN / Mouse / Keyboard / Earphone
- VCO, RF Module & Other Wireless Products
- Base Station, Repeater
- GPS Receiver

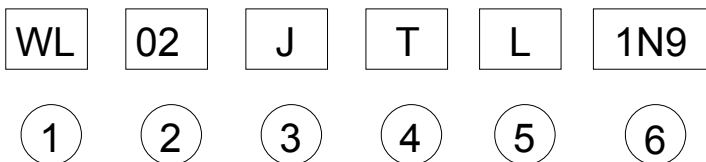
Broad Band Applications:

- CATV Filter, Tuner
- Cable Modem/ XDSL Tuner
- Set Top Box

IT Applications:

- USB 2.0
- IEEE 1394

Part Numbering



① Product Type

Product Type	
WL	Wire Wound Chip Inductor

② Dimensions (L×W)

Codes	Dimensions (L×W)	EIA
WL02	1.00×0.50mm	0402
WL03	1.60×0.80mm	0603
WL05	2.00×1.20mm	0805
WL08	2.50×2.00mm	1008
WL06	3.20×1.60mm	1206

③ Inductance Tolerance

Codes	Type
G	$\pm 2\%$
J	$\pm 5\%$
K	$\pm 10\%$
M	$\pm 20\%$

④ Packaging

Codes	Type
T	Taping Reel

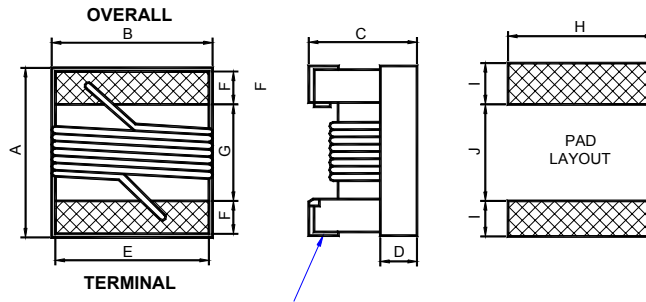
⑤ Design code

Codes	Type
	Standard Inductor
L	Low Profile Inductor
H	High Current and High Q

⑥ Inductance

Codes	Type
1N6	1.6nH
82N	82nH
R27	270nH
1R0	1000nH
103	10000nH

Dimensions



TERMINAL WARPAROUND:

Approx. 0.007" / 0.18mm BOTH ENDS

Standard

Unit: mm

Series	A Max.	B Max.	C Max.	D Ref.	E	F	G	H	I	J
WL02	1.27	0.76	0.61	0.15	0.51	0.23	0.56	0.66	0.50	0.46
WL03	1.80	1.12	1.02	0.38	0.76	0.33	0.86	1.02	0.64	0.64
WL05	2.29	1.73	1.52	0.51	1.27	0.44	1.02	1.78	1.02	0.76
WL08	2.92	2.79	2.03	0.65	2.03	0.51	1.52	2.54	1.02	1.27
WL06	3.56	2.16	1.52	0.50	1.20	0.50	2.20	1.93	1.02	1.78

Low Profile

Series	A Max.	B Max.	C Max.	D Ref.	E	F	G	H	I	J
WL05	2.29	1.73	1.03	0.51	1.27	0.44	1.02	1.78	1.02	0.76
WL08	2.92	2.79	1.40	0.65	2.03	0.51	1.52	2.54	1.02	1.27

High Current / High Q

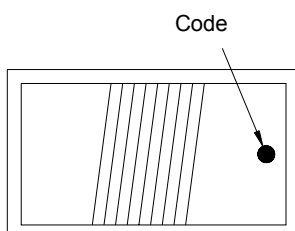
Series	A Max.	B Max.	C Max.	D Ref.	E	F	G	H	I	J
WL03	1.80	1.12	1.02	0.38	0.76	0.33	0.86	1.02	0.64	0.64
WL05	2.29	1.73	1.52	0.51	1.27	0.44	1.02	1.78	1.02	0.76
WL08	2.92	2.79	2.03	0.65	2.03	0.51	1.52	2.54	1.02	1.27

Color Coding

0603 / 0805/1206/1008 Series (0402 Series is No Color Coding)

Because of small sizes, these parts are marked with a single color dot.

The inductance value represented by the dot is shown on the data page for each series.



COLOR CODING

Standard Electrical Specifications

0402 Wire Wound Chip Inductors / Standard

Part Number	Inductance nH	Tolerance (%)	Quality Factor /min.	Self Resonant Frequency /min. (GHz)	Resistance DC/Max (Ohm)	Current DC/Max (mA)	900MHz		1.7GHz	
							L	Q	L	Q
WL02□T1N0	1.0 @ 250MHz	10	16	12.70	0.045	1360	1.02	77	1.02	69
WL02□T1N9	1.9 @ 250MHz	10,5	16	11.30	0.070	1040	1.72	68	1.74	82
WL02□T2N0	2.0 @ 250MHz	10,5	16	11.10	0.070	1040	1.93	54	1.93	75
WL02□T2N2	2.2 @ 250MHz	10,5	19	10.80	0.070	960	2.19	59	2.23	100
WL02□T2N4	2.4 @ 250MHz	10,5	15	10.50	0.070	790	2.24	51	2.27	68
WL02□T2N7	2.7 @ 250MHz	10,5	16	10.40	0.120	640	2.23	42	2.25	61
WL02□T3N3	3.3 @ 250MHz	10,5,2	19	7.00	0.066	840	3.10	65	3.12	87
WL02□T3N6	3.6 @ 250MHz	10,5,2	19	6.80	0.066	840	3.56	45	3.62	71
WL02□T3N9	3.9 @ 250MHz	10,5,2	19	5.80	0.066	840	3.89	50	4.00	75
WL02□T4N3	4.3 @ 250MHz	10,5,2	18	6.00	0.091	700	4.19	47	4.30	71
WL02□T4N7	4.7 @ 250MHz	10,5,2	15	4.70	0.130	640	4.55	48	4.68	68
WL02□T5N1	5.1 @ 250MHz	10,5,2	20	4.80	0.083	800	5.15	56	5.25	82
WL02□T5N6	5.6 @ 250MHz	10,5,2	20	4.80	0.083	760	5.16	54	5.28	81
WL02□T6N2	6.2 @ 250MHz	10,5,2	20	4.80	0.083	760	6.16	52	6.37	76
WL02□T6N8	6.8 @ 250MHz	10,5,2	20	4.80	0.083	680	6.56	63	6.93	78
WL02□T7N5	7.5 @ 250MHz	10,5,2	22	4.80	0.104	680	7.91	60	8.22	88
WL02□T8N2	8.2 @ 250MHz	10,5,2	22	4.40	0.104	680	8.50	57	8.85	84
WL02□T8N7	8.7 @ 250MHz	10,5,2	18	4.10	0.200	480	8.78	54	9.21	73
WL02□T9N0	9.0 @ 250MHz	10,5,2	22	4.16	0.104	680	9.07	62	9.53	78
WL02□T9N5	9.5 @ 250MHz	10,5,2	18	4.00	0.200	480	9.42	54	9.98	69
WL02□T10N	10 @ 250MHz	10,5,2	21	3.90	0.195	480	9.80	50	10.10	67
WL02□T11N	11 @ 250MHz	10,5,2	24	3.68	0.120	640	10.70	52	11.20	78
WL02□T12N	12 @ 250MHz	10,5,2	24	3.60	0.120	640	11.90	53	12.70	71
WL02□T13N	13 @ 250MHz	10,5,2	24	3.45	0.210	440	13.40	51	14.60	57
WL02□T15N	15 @ 250MHz	10,5,2	24	3.28	0.172	560	14.60	55	15.50	77
WL02□T16N	16 @ 250MHz	10,5,2	24	3.10	0.220	560	16.60	46	18.80	47
WL02□T18N	18 @ 250MHz	10,5,2	24	3.10	0.230	420	18.30	57	20.30	62
WL02□T19N	19 @ 250MHz	10,5,2	24	3.04	0.202	480	19.10	50	21.10	67
WL02□T20N	20 @ 250MHz	10,5,2	25	3.00	0.250	420	20.70	52	23.70	53
WL02□T22N	22 @ 250MHz	10,5,2	25	2.80	0.300	400	23.20	53	26.80	53
WL02□T23N	23 @ 250MHz	10,5,2	22	2.72	0.300	400	23.80	49	26.90	64
WL02□T24N	24 @ 250MHz	10,5,2	25	2.70	0.300	400	25.10	51	29.50	50
WL02□T27N	27 @ 250MHz	10,5,2	24	2.48	0.300	400	28.70	49	33.50	63
WL02□T30N	30 @ 250MHz	10,5,2	25	2.35	0.350	400	31.10	46	38.50	39
WL02□T33N	33 @ 250MHz	10,5,2	24	2.35	0.350	400	34.90	31	41.70	32
WL02□T36N	36 @ 250MHz	10,5,2	24	2.32	0.440	320	39.50	44	48.40	53
WL02□T39N	39 @ 250MHz	10,5,2	25	2.10	0.550	200	41.70	47	50.20	45
WL02□T40N	40 @ 250MHz	10,5,2	24	2.24	0.500	320	39.00	44	47.40	33
WL02□T43N	43 @ 250MHz	10,5,2	25	2.03	0.810	100	45.80	46	61.60	34
WL02□T47N	47 @ 250MHz	10,5,2	20	2.10	0.830	150	50.00	38	55.80	37
WL02□T51N	51 @250MHZ	10,5,2	25	1.75	0.820	100	50.40	47	59.40	37
WL02□T56N	56 @250MHZ	10,5,2	22	1.76	0.970	100	57.40	49	72.40	40
WL02□T68N	68 @250MHZ	10,5,2	22	1.62	1.120	100	69.60	45	83.40	38

Standard Electrical Specifications

0603 Wire Wound Chip Inductors / Standard

Part Number	Inductance nH	Tolerance (%)	Quality Factor /min.	Self Resonant Frequency /min. (GHz)	Resistance DC/Max (Ohm)	Current DC/Max (mA)	900MHz		1.7GHz		Color Code
							L	Q	L	Q	
WL03□T1N6	1.6 @ 250MHz	10,5	24	12.5	0.030	700	1.53	35	1.58	55	Blue
WL03□T1N8	1.8 @ 250MHz	10,5	16	12.5	0.045	700	1.63	35	1.66	50	Black
WL03□T2N2	2.2 @ 250MHz	10,5	20	6.00	0.100	700	2.18	41	2.20	64	White
WL03□T2N3	2.3 @ 250MHz	10,5	16	>4.00	0.140	700	2.32	32	2.35	40	Yellow
WL03□T3N3	3.3 @ 250MHz	10,5,2	22	>6.00	0.080	700	3.35	47	3.40	65	Red
WL03□T3N6	3.6 @ 250MHz	10,5,2	22	5.80	0.063	700	3.53	49	3.58	65	Violet
WL03□T3N9	3.9 @ 250MHz	10,5,2	22	>6.00	0.080	700	3.95	49	3.96	67	Brown
WL03□T4N3	4.3 @ 250MHz	10,5,2	22	5.80	0.063	700	4.32	49	4.43	67	Orange
WL03□T4N5	4.5 @ 250MHz	10,5,2	20	5.80	0.120	700	4.74	55	4.87	92	Gray
WL03□T4N7	4.7 @ 250MHz	10,5,2	20	5.80	0.120	700	4.65	53	4.80	67	Violet
WL03□T5N1	5.1 @ 250MHz	10,5,2	20	5.80	0.160	700	5.13	47	5.36	56	Green
WL03□T5N6	5.6 @ 250MHz	10,5,2	20	5.80	0.170	700	5.53	56	5.86	77	Yellow
WL03□T6N2	6.2 @ 250MHz	10,5,2	25	5.80	0.110	700	6.28	60	6.40	85	Black
WL03□T6N3	6.3 @ 250MHz	10,5,2	25	5.80	0.110	700	6.67	41	6.86	61	Black
WL03□T6N8	6.8 @ 250MHz	10,5,2	27	5.80	0.110	700	6.75	60	7.10	81	Red
WL03□T7N5	7.5 @ 250MHz	10,5,2	28	4.80	0.106	700	7.70	60	7.82	65	Brown
WL03□T8N2	8.2 @ 250MHz	10,5,2	27	4.80	0.110	700	8.25	64	8.40	81	Green
WL03□T8N7	8.7 @ 250MHz	10,5,2	28	4.60	0.109	700	8.86	62	9.32	58	Yellow
WL03□T9N1	9.1 @ 250MHz	10,5,2	35	4.80	0.130	700	9.20	70	9.70	80	Black
WL03□T9N5	9.5 @ 250MHz	10,5,2	28	5.40	0.135	700	9.70	59	9.92	61	Blue
WL03□T10N	10.0 @ 250MHz	10,5,2	31	4.80	0.130	700	10.0	66	10.6	83	Orange
WL03□T11N	11.0 @ 250MHz	10,5,2	31	4.00	0.086	700	11.3	53	12.1	56	Gray
WL03□T12N	12.0 @ 250MHz	10,5,2	35	4.00	0.130	700	12.3	72	13.5	83	Yellow
WL03□T15N	15.0 @ 250MHz	10,5,2	35	4.00	0.170	700	15.4	64	16.8	89	Green
WL03□T16N	16.0 @ 250MHz	10,5,2	35	3.30	0.110	700	16.5	55	18.0	52	White
WL03□T17N	17.0 @ 250MHz	10,5,2	35	3.20	0.170	700	17.6	56	19.4	44	Red
WL03□T18N	18.0 @ 250MHz	10,5,2	35	3.10	0.170	700	18.7	70	21.4	69	Blue
WL03□T20N	20.0 @ 250MHz	10,5,2	40	3.00	0.190	700	20.7	80	23.5	30	Green
WL03□T22N	22.0 @ 250MHz	10,5,2	38	3.00	0.190	700	22.8	73	26.1	71	Violet
WL03□T23N	23.0 @ 250MHz	10,5,2	38	2.85	0.190	700	24.1	71	28.0	71	Orange
WL03□T24N	24.0 @ 250MHz	10,5,2	36	2.80	0.130	700	25.7	45	30.9	40	Black
WL03□T27N	27.0 @ 250MHz	10,5,2	40	2.80	0.220	600	29.2	74	34.6	65	Gray
WL03□T30N	30.0 @ 250MHz	10,5,2	37	2.80	0.150	600	31.4	47	39.8	28	Brown
WL03□T33N	33.0 @ 250MHz	10,5,2	40	2.30	0.220	600	36.0	67	49.5	42	White
WL03□T36N	36.0 @ 250MHz	10,5,2	37	2.30	0.250	600	39.1	47	48.9	24	Red
WL03□T39N	39.0 @ 250MHz	10,5,2	40	2.20	0.250	600	42.7	60	60.2	40	Black
WL03□T43N	43.0 @ 200MHz	10,5,2	38	2.00	0.280	600	46.9	44	60.3	21	Orange
WL03□T47N	47.0 @ 200MHz	10,5,2	38	2.00	0.280	600	52.2	62	77.2	35	Brown
WL03□T51N	51.0 @ 200MHz	10,5,2	35	1.90	0.280	600	55.5	69	82.2	34	Blue
WL03□T56N	56.0 @ 200MHz	10,5,2	38	1.90	0.310	600	62.5	56	97.0	26	Red
WL03□T62N	62.0 @ 200MHz	10,5,2	37	1.80	0.340	600	68.0	40	110	10	Gray
WL03□T68N	68.0 @ 200MHz	10,5,2	37	1.70	0.340	600	80.5	54	168	21	Orange
WL03□T72N	72.0 @ 150MHz	10,5,2	34	1.70	0.490	400	82.0	53	135	20	Yellow
WL03□T82N	82.0 @ 150MHz	10,5,2	34	1.70	0.540	400	96.2	54	177	21	Green
WL03□T91N	91.0 @ 150MHz	10,5,2	30	1.70	0.500	400	110.0	50	416.4	6	Brown
WL03□TR10	100 @ 150MHz	10,5,2	34	1.40	0.580	400	124.0	49	319.5	13	Blue
WL03□TR11	110 @ 150MHz	10,5,2	32	1.35	0.610	300	138.0	43	342.7	15	Violet
WL03□TR12	120 @ 150MHz	10,5,2	32	1.30	0.650	300	166.0	39	529.3	8	Gray
WL03□TR13	130 @ 150MHz	10,5,2	30	1.40	0.720	300	185.0	60	-	-	White
WL03□TR14	140 @ 100MHz	10,5,2	28	1.30	0.870	280	190.0	80	-	-	Blue
WL03□TR15	150 @ 100MHz	10,5,2	32	1.30	0.950	280	230.0	25	-	-	White
WL03□TR16	160 @ 100MHz	10,5,2	25	1.30	1.400	280	215.0	20	-	-	Yellow
WL03□TR18	180 @ 100MHz	10,5,2	25	1.25	1.400	250	305.0	22	-	-	Black
WL03□TR22	220 @ 100MHz	10,5,2	25	1.20	1.600	250	377.0	21	-	-	Brown
WL03□TR26	260 @ 100MHz	10,5,2	25	1.00	2.000	200	469.0	21	-	-	Violet
WL03□TR27	270 @ 100MHz	10,5,2	25	0.90	2.100	200	523.0	19	-	-	Red
WL03□TR28	280 @ 100MHz	10,5,2	25	1.00	2.400	100	524.0	18	-	-	Green
WL03□TR30	300 @ 100MHz	10,5,2	25	0.75	2.500	150	539.7	21	-	-	Orange
WL03□TR33	330 @ 100MHz	10,5,2	25	0.90	3.800	100	680.4	20	-	-	Blue
WL03□TR39	390 @ 100MHz	10,5,2	25	0.90	4.350	100	734.5	29	-	-	Yellow
WL03□TR47	470 @ 100MHz	10,5,2	23	0.60	3.60	80	-	-	-	-	White

Standard Electrical Specifications

0805 Wire Wound Chip Inductors / Standard

Part Number	Inductance nH	Tolerance (%)	Quality Factor /min.	Self Resonant Frequency /min. (GHz)	Resistance DC/Max (Ohm)	Current DC/Max (mA)	Color Code
WL05□T2N7	2.7 @ 250MHz	10,5	80 @ 1500MHz	7.900	0.06	800	Brown
WL05□T2N8	2.8 @ 250MHz	10,5	80 @ 1500MHz	7.900	0.06	800	Gray
WL05□T3N0	3.0 @ 250MHz	10,5	65 @ 1500MHz	7.900	0.06	800	White
WL05□T3N3	3.3 @ 250MHz	10,5	50 @ 1500MHz	6.000	0.08	600	Black
WL05□T5N6	5.6 @ 250MHz	10,5	65 @ 1000MHz	5.500	0.08	600	Orange
WL05□T6N2	6.2 @ 250MHz	10,5	50 @ 1000MHz	5.500	0.11	600	Green
WL05□T6N8	6.8 @ 250MHz	10,5	50 @ 1000MHz	5.500	0.11	600	Brown
WL05□T7N5	7.5 @ 250MHz	10,5	50 @ 1000MHz	4.500	0.14	600	Green
WL05□T8N2	8.2 @ 250MHz	10,5	50 @ 1000MHz	4.700	0.12	600	Red
WL05□T8N7	8.7 @ 250MHz	10,5	50 @ 1000MHz	3.900	0.21	400	White
WL05□T10N	10.0 @ 250MHz	10,5,2	60 @ 500MHz	4.200	0.10	600	Blue
WL05□T12N	12.0 @ 250MHz	10,5,2	50 @ 500MHz	4.000	0.15	600	Orange
WL05□T15N	15.0 @ 250MHz	10,5,2	50 @ 500MHz	3.400	0.17	600	Yellow
WL05□T18N	18.0 @ 250MHz	10,5,2	50 @ 500MHz	3.300	0.20	600	Green
WL05□T22N	22.0 @ 250MHz	10,5,2	55 @ 500MHz	2.600	0.22	500	Blue
WL05□T24N	24.0 @ 250MHz	10,5,2	50 @ 500MHz	2.000	0.22	500	Gray
WL05□T27N	27.0 @ 250MHz	10,5,2	55 @ 500MHz	2.500	0.25	500	Violet
WL05□T33N	33.0 @ 250MHz	10,5,2	60 @ 500MHz	2.050	0.27	500	Gray
WL05□T36N	36.0 @ 250MHz	10,5,2	55 @ 500MHz	1.700	0.27	500	Orange
WL05□T39N	39.0 @ 250MHz	10,5,2	60 @ 500MHz	2.000	0.29	500	White
WL05□T43N	43.0 @ 200MHz	10,5,2	60 @ 500MHz	1.650	0.34	500	Yellow
WL05□T47N	47.0 @ 200MHz	10,5,2	60 @ 500MHz	1.650	0.31	500	Black
WL05□T56N	56.0 @ 200MHz	10,5,2	60 @ 500MHz	1.550	0.34	500	Brown
WL05□T68N	68.0 @ 200MHz	10,5,2	60 @ 500MHz	1.450	0.38	500	Red
WL05□T72N	72.0 @ 150MHz	10,5,2	65 @ 500MHz	1.400	0.40	500	Green
WL05□T82N	82.0 @ 150MHz	10,5,2	65 @ 500MHz	1.300	0.42	400	Orange
WL05□T91N	91.0 @ 150MHz	10,5,2	65 @ 500MHz	1.200	0.48	400	Black
WL05□TR10	100 @ 150MHz	10,5,2	65 @ 500MHz	1.200	0.46	400	Yellow
WL05□TR11	110 @ 150MHz	10,5,2	50 @ 250MHz	1.000	0.48	400	Brown
WL05□TR12	120 @ 150MHz	10,5,2	50 @ 250MHz	1.100	0.51	400	Green
WL05□TR15	150 @ 100MHz	10,5,2	50 @ 250MHz	0.920	0.56	400	Blue
WL05□TR18	180 @ 100MHz	10,5,2	50 @ 250MHz	0.870	0.64	400	Violet
WL05□TR20	200 @ 100MHz	10,5,2	50 @ 250MHz	0.860	0.66	400	Orange
WL05□TR22	220 @ 100MHz	10,5,2	50 @ 250MHz	0.850	0.70	400	Gray
WL05□TR24	240 @ 100MHz	10,5,2	44 @ 250MHz	0.690	1.00	350	Red
WL05□TR25	250 @ 100MHz	10,5,2	45 @ 250MHz	0.680	1.00	350	Green
WL05□TR27	270 @ 100MHz	10,5,2	48 @ 250MHz	0.650	1.00	350	White
WL05□TR30	300 @ 100MHz	10,5,2	48 @ 250MHz	0.620	1.20	330	Yellow
WL05□TR33	330 @ 100MHz	10,5,2	48 @ 250MHz	0.600	1.40	310	Black
WL05□TR36	360 @ 100MHz	10,5,2	48 @ 250MHz	0.580	1.45	300	Green
WL05□TR39	390 @ 100MHz	10,5,2	48 @ 250MHz	0.560	1.50	290	Brown
WL05□TR43	430 @ 50MHz	10,5,2	33 @ 100MHz	0.430	1.70	230	Blue
WL05□TR47	470 @ 50MHz	10,5,2	33 @ 100MHz	0.375	1.70	220	Red
WL05□TR56	560 @ 25MHz	10,5,2	23 @ 50MHz	0.340	1.90	210	Orange
WL05□TR60	600 @ 25MHz	10,5,2	23 @ 50MHz	0.260	1.60	450	White
WL05□TR62	620 @ 25MHz	10,5,2	23 @ 50MHz	0.220	2.20	210	Yellow
WL05□TR68	680 @ 25MHz	10,5,2	23 @ 50MHz	0.200	2.20	190	Green
WL05□TR75	750 @ 25MHz	10,5,2	23 @ 50MHz	0.200	2.30	180	Blue
WL05□TR82	820 @ 25MHz	10,5,2	23 @ 50MHz	0.200	2.35	180	Violet
WL05□T1R0	1000 @ 25MHz	10,5,2	20 @ 50MHz	0.100	2.50	170	Gray
WL05□T1R2	1200 @ 7.9MHz	10,5,2	18 @ 25MHz	0.100	2.50	170	White
WL05□T1R5	1500 @ 7.9MHz	10,5,2	16 @ 25MHz	0.100	2.50	170	Black
WL05□T1R8	1800 @ 7.9MHz	10,5,2	16 @ 7.9MHz	0.080	2.50	170	Brown
WL05□T2R2	2200 @ 7.9MHz	10,5,2	16 @ 7.9MHz	0.060	2.70	160	Red
WL05□T2R7	2700 @ 7.9MHz	10,5,2	16 @ 7.9MHz	0.050	2.95	150	Orange
WL05□T3R3	3300 @ 7.9MHz	10,5,2	15 @ 7.9MHz	0.040	4.40	90	Blue
WL05□T4R7	4700 @ 7.9MHz	10,5,2	15 @ 7.9MHz	0.040	6.40	90	Green

Standard Electrical Specifications

1008 Wire Wound Chip Inductors / Standard

Part Number	Inductance nH	Tolerance (%)	Quality Factor /min.	Self Resonant Frequency /min. (GHz)	Resistance DC/Max (Ohm)	Current DC/Max (mA)	Color Code
*WL08□T5N6	5.6 @ 50MHz	10,5	50 @ 1500MHz	4.000	0.15	1000	Black
*WL08□T10N	10 @ 50MHz	10,5,2	50 @ 500MHz	4.100	0.08	1000	Brown
*WL08□T12N	12 @ 50MHz	10,5,2	50 @ 500MHz	3.300	0.09	1000	Red
*WL08□T15N	15 @ 50MHz	10,5,2	50 @ 500MHz	2.500	0.11	1000	Orange
*WL08□T18N	18 @ 50MHz	10,5,2	50 @ 350MHz	2.400	0.12	1000	Yellow
*WL08□T22N	22 @ 50MHz	10,5,2	55 @ 350MHz	2.400	0.12	1000	Green
WL08□T24N	24 @ 50MHz	10,5,2	55 @ 350MHz	1.900	0.12	1000	Blue
*WL08□T27N	27 @ 50MHz	10,5,2	55 @ 350MHz	1.600	0.13	1000	Violet
*WL08□T33N	33 @ 50MHz	10,5,2	60 @ 350MHz	1.600	0.14	1000	Gray
*WL08□T36N	36 @ 50MHz	10,5,2	60 @ 350MHz	1.600	0.15	1000	Orange
*WL08□T39N	39 @ 50MHz	10,5,2	60 @ 350MHz	1.500	0.15	1000	White
*WL08□T47N	47 @ 50MHz	10,5,2	65 @ 350MHz	1.500	0.16	1000	Black
*WL08□T56N	56 @ 50MHz	10,5,2	65 @ 350MHz	1.300	0.18	1000	Brown
*WL08□T62N	62 @ 50MHz	10,5,2	65 @ 350MHz	1.250	0.20	1000	Blue
*WL08□T68N	68 @ 50MHz	10,5,2	65 @ 350MHz	1.300	0.20	1000	Red
WL08□T75N	75 @ 50MHz	10,5,2	60 @ 350MHz	1.100	0.21	1000	White
*WL08□T82N	82 @ 50MHz	10,5,2	60 @ 350MHz	1.000	0.22	1000	Orange
*WL08□TR10	100 @ 25MHz	10,5,2	60 @ 350MHz	1.000	0.56	650	Yellow
*WL08□TR12	120 @ 25MHz	10,5,2	60 @ 350MHz	0.950	0.63	650	Green
*WL08□TR15	150 @ 25MHz	10,5,2	45 @ 100MHz	0.850	0.70	580	Blue
*WL08□TR18	180 @ 25MHz	10,5,2	45 @ 100MHz	0.750	0.77	620	Violet
*WL08□TR22	220 @ 25MHz	10,5,2	45 @ 100MHz	0.700	0.84	500	Gray
*WL08□TR24	240 @ 25MHz	10,5,2	45 @ 100MHz	0.650	0.88	500	White
*WL08□TR27	270 @ 25MHz	10,5,2	45 @ 100MHz	0.600	0.91	500	Black
*WL08□TR30	300 @ 25MHz	10,5,2	45 @ 100MHz	0.585	1.00	450	Brown
*WL08□TR33	330 @ 25MHz	10,5,2	45 @ 100MHz	0.570	1.05	450	Red
*WL08□TR36	360 @ 25MHz	10,5,2	45 @ 100MHz	0.530	1.10	470	Orange
*WL08□TR39	390 @ 25MHz	10,5,2	45 @ 100MHz	0.500	1.12	470	Yellow
*WL08□TR43	430 @ 25MHz	10,5,2	45 @ 100MHz	0.480	1.15	470	Green
*WL08□TR47	470 @ 25MHz	10,5,2	45 @ 100MHz	0.450	1.19	470	Blue
*WL08□TR56	560 @ 25MHz	10,5,2	45 @ 100MHz	0.415	1.33	400	Violet
*WL08□TR62	620 @ 25MHz	10,5,2	45 @ 100MHz	0.375	1.40	300	Gray
*WL08□TR68	680 @ 25MHz	10,5,2	45 @ 100MHz	0.375	1.47	400	White
*WL08□TR75	750 @ 25MHz	10,5,2	45 @ 100MHz	0.360	1.54	360	Black
*WL08□TR82	820 @ 25MHz	10,5,2	45 @ 100MHz	0.350	1.61	400	Brown
*WL08□TR91	910 @ 25MHz	10,5,2	35 @ 50MHz	0.320	1.68	380	Red
*WL08□T1R0	1000 @ 25MHz	10,5,2	35 @ 50MHz	0.290	1.75	370	Orange
*WL08□T1R2	1200 @ 7.9MHz	10,5,2	35 @ 50MHz	0.250	2.00	310	Yellow
*WL08□T1R5	1500 @ 7.9MHz	10,5,2	28 @ 50MHz	0.200	2.30	330	Green
*WL08□T1R8	1800 @ 7.9MHz	10,5,2	28 @ 50MHz	0.160	2.60	300	Blue
*WL08□T2R2	2200 @ 7.9MHz	10,5,2	28 @ 50MHz	0.160	2.80	280	Violet
*WL08□T2R7	2700 @ 7.9MHz	10,5,2	22 @ 25MHz	0.140	3.20	290	Gray
*WL08□T3R3	3300 @ 7.9MHz	10,5,2	22 @ 25MHz	0.110	3.40	290	White
*WL08□T3R9	3900 @ 7.9MHz	10,5,2	20 @ 25MHz	0.100	3.60	260	Black
*WL08□T4R7	4700 @ 7.9MHz	10,5,2	18 @ 25MHz	0.090	4.00	260	Brown
WL08□T5R6	5600 @ 7.9MHz	10,5,2	16 @ 7.96MHz	0.020	4.00	240	Red
WL08□T6R8	6800 @ 7.9MHz	10,5,2	15 @ 7.96MHz	0.040	4.90	200	Orange
WL08□T8R2	8200 @ 7.9MHz	10,5,2	15 @ 7.96MHz	0.025	6.00	170	Yellow
WL08□T103	10000 @ 2.52MHz	10,5,2	15 @ 7.96MHz	0.020	9.00	150	Green
WL08□T123	12000 @ 2.52MHz	10,5,2	15 @ 7.96MHz	0.018	10.5	130	Blue
WL08□T153	15000 @ 2.52MHz	10,5,2	15 @ 7.96MHz	0.015	11.5	120	Violet

* Test Methods / Instrument : Network / Spectrum Analyzer.

Standard Electrical Specifications

1206 Wire Wound Chip Inductors / Standard

Part Number	Inductance nH	Tolerance (%)	Quality Factor /min.	Self Resonant Frequency /min. (GHz)	Resistance DC/Max (Ohm)	Current DC/Max (mA)	Color Code
WL06□T6N8	6.8 @ 100MHz	10,5	30 @ 300MHz	5.50	0.07	1000	Brown
WL06□T10N	10.0 @ 100MHz	10,5	40 @ 300MHz	4.00	0.08	1000	Red
WL06□T12N	12.0 @ 100MHz	10,5	40 @ 300MHz	3.20	0.08	1000	Orange
WL06□T15N	15.0 @ 100MHz	10,5	40 @ 300MHz	3.20	0.10	1000	Yellow
WL06□T18N	18.0 @ 100MHz	10,5	50 @ 300MHz	2.80	0.10	1000	Green
WL06□T22N	22.0 @ 100MHz	10,5	50 @ 300MHz	2.20	0.10	1000	Blue
WL06□T24N	24.0 @ 100MHz	10,5	50 @ 300MHz	2.00	0.10	1000	Red
WL06□T27N	27.0 @ 100MHz	10,5,2	50 @ 300MHz	1.80	0.11	1000	Violet
WL06□T33N	33.0 @ 100MHz	10,5,2	55 @ 300MHz	1.80	0.11	1000	Gray
WL06□T39N	39.0 @ 100MHz	10,5,2	55 @ 300MHz	1.80	0.12	1000	White
WL06□T47N	47.0 @ 100MHz	10,5,2	55 @ 300MHz	1.50	0.13	1000	Black
WL06□T56N	56.0 @ 100MHz	10,5,2	55 @ 300MHz	1.45	0.14	1000	Brown
WL06□T62N	62.0 @ 100MHz	10,5,2	55 @ 300MHz	1.20	0.20	1000	Violet
WL06□T68N	68.0 @ 100MHz	10,5,2	55 @ 300MHz	1.20	0.26	950	Red
WL06□T82N	82.0 @ 100MHz	10,5,2	55 @ 300MHz	1.20	0.21	920	Orange
WL06□T91N	91.0 @ 100MHz	10,5,2	55 @ 300MHz	1.10	0.24	900	White
WL06□TR10	100 @ 100MHz	10,5,2	55 @ 300MHz	1.10	0.26	850	Yellow
WL06□TR12	120 @ 100MHz	10,5,2	55 @ 300MHz	0.75	0.26	800	Green
WL06□TR15	150 @ 100MHz	10,5,2	60 @ 300MHz	0.95	0.31	750	Blue
WL06□TR18	180 @ 50MHz	10,5,2	55 @ 300MHz	0.90	0.43	700	Violet
WL06□TR22	220 @ 50MHz	10,5,2	55 @ 300MHz	0.76	0.50	670	Gray
WL06□TR27	270 @ 50MHz	10,5,2	55 @ 300MHz	0.74	0.56	630	White
WL06□TR30	300 @ 50MHz	10,5,2	50 @ 150MHz	0.68	0.60	600	Green
WL06□TR33	330 @ 50MHz	10,5,2	45 @ 150MHz	0.65	0.62	590	Black
WL06□TR36	360 @ 50MHz	10,5,2	45 @ 150MHz	0.60	0.65	550	Blue
WL06□TR39	390 @ 50MHz	10,5,2	45 @ 150MHz	0.60	0.75	530	Brown
WL06□TR47	470 @ 50MHz	10,5,2	45 @ 150MHz	0.55	1.30	490	Red
WL06□TR56	560 @ 35MHz	10,5,2	45 @ 150MHz	0.47	1.34	460	Orange
WL06□TR62	620 @ 35MHz	10,5,2	45 @ 150MHz	0.47	1.58	460	Gray
WL06□TR68	680 @ 35MHz	10,5,2	45 @ 150MHz	0.45	1.58	430	Yellow
WL06□TR75	750 @ 35MHz	10,5,2	45 @ 150MHz	0.44	2.25	320	White
WL06□TR82	820 @ 35MHz	10,5,2	45 @ 150MHz	0.42	1.82	400	Green
WL06□TR91	910 @ 35MHz	10,5,2	45 @ 150MHz	0.41	2.95	310	Green
WL06□T1R0	1000 @ 35MHz	10,5,2	45 @ 150MHz	0.40	2.80	320	Blue
WL06□T1R2	1200 @35MHz	10,5,2	45 @ 150MHz	0.38	3.20	300	Violet

Standard Electrical Specifications

0805 Wire Wound Chip Inductors / Low Profile

Part Number	Inductance nH	Tolerance (%)	Quality Factor /min.	Self Resonant Frequency /min. (GHz)	Resistance DC/Max (Ohm)	Current DC/Max (mA)	Color Code
WL05□TL1N8	1.8 @ 250MHz	10	55 @ 1500MHz	9.40	0.03	800	Black
WL05□TL3N9	3.9 @ 250MHz	10,5	50 @ 1000MHz	6.10	0.06	800	Brown
WL05□TL4N7	4.7 @ 250MHz	10,5	50 @ 1000MHz	5.50	0.06	800	Red
WL05□TL6N8	6.8 @ 250MHz	10,5	50 @ 1000MHz	5.50	0.08	800	Orange
WL05□TL8N2	8.2 @ 250MHz	10,5	50 @ 1000MHz	4.80	0.08	800	Yellow
WL05□TL10N	10.0 @ 250MHz	10,5,2	55 @ 750MHz	3.30	0.08	800	Green
WL05□TL12N	12.0 @ 250MHz	10,5,2	55 @ 750MHz	3.80	0.10	800	Blue
WL05□TL15N	15.0 @ 250MHz	10,5,2	50 @ 500MHz	2.95	0.10	800	Violet
WL05□TL18N	18.0 @ 250MHz	10,5,2	50 @ 500MHz	3.10	0.13	800	Gray
WL05□TL22N	22.0 @ 250MHz	10,5,2	50 @ 500MHz	2.90	0.15	800	Whit
WL05□TL27N	27.0 @ 250MHz	10,5,2	50 @ 500MHz	2.45	0.23	600	Black
WL05□TL33N	33.0 @ 250MHz	10,5,2	50 @ 500MHz	2.35	0.28	600	Brown
WL05□TL39N	39.0 @ 250MHz	10,5,2	50 @ 500MHz	2.20	0.33	600	Red
WL05□TL47N	47.0 @ 200MHz	10,5,2	50 @ 500MHz	2.00	0.39	600	Orange
WL05□TL56N	56.0 @ 200MHz	10,5,2	50 @ 500MHz	1.85	0.39	500	Yellow
WL05□TL68N	68.0 @ 200MHz	10,5,2	50 @ 500MHz	1.50	0.40	500	Green
WL05□TL82N	82.0 @ 150MHz	10,5,2	50 @ 500MHz	1.50	0.44	500	Blue
WL05□TLR10	100.0 @ 150MHz	10,5,2	50 @ 500MHz	1.20	0.64	400	Violet
WL05□TLR12	120.0 @ 150MHz	10,5,2	40 @ 250MHz	1.15	0.68	300	Gray
WL05□TLR15	150.0 @ 150MHz	10,5,2	40 @ 250MHz	1.05	0.80	300	Whit
WL05□TL1R0	1000.0 @ 25MHz	10,5,2	16 @ 50MHz	0.08	3.50	170	Black

1008 Wire Wound Chip Inductors / Low Profile

Part Number	Inductance nH	Tolerance (%)	Quality Factor /min.	Self Resonant Frequency /min. (GHz)	Resistance DC/Max (Ohm)	Current DC/Max (mA)	Color Code
WL08□TL3N3	3.3 @ 50MHz	10,5	42 @ 1500MHz	6.00	0.03	1000	Black
WL08□TL4N2	4.2 @ 50MHz	10,5	42 @ 1500MHz	6.00	0.15	1000	Black
WL08□TL6N8	6.8 @ 50MHz	10,5	50 @ 1500MHz	5.40	0.17	1000	Brown
WL08□TL8N2	8.2 @ 50MHz	10,5	50 @ 1500MHz	5.00	0.22	1000	Red
WL08□TL15N	15 @ 50MHz	10,5	57 @ 500MHz	3.00	0.22	1000	Orange
WL08□TL18N	18 @ 50MHz	10,5	50 @ 350MHz	2.40	0.12	1000	Gray
WL08□TL20N	20 @ 50MHz	10,5	72 @ 500MHz	2.40	0.33	1000	Yellow
WL08□TL27N	27 @ 50MHz	10,5	50 @ 350MHz	1.60	0.13	850	Green
WL08□TL30N	30 @ 50MHz	10,5	69 @ 500MHz	2.40	0.38	600	Blue
WL08□TL40N	40 @ 50MHz	10,5	67 @ 500MHz	2.00	0.43	600	Violet
WL08□TL50N	50 @ 50MHz	10,5,2	72 @ 500MHz	1.90	0.48	600	Gray
WL08□TL60N	60 @ 50MHz	10,5,2	75 @ 500MHz	1.80	0.52	600	White
WL08□TL70N	70 @ 50MHz	10,5,2	68 @ 500MHz	1.70	0.55	510	Black
WL08□TL80N	80 @ 50MHz	10,5,2	75 @ 500MHz	1.40	0.56	510	Brown
WL08□TLR18	180 @ 50MHz	10,5,2	50 @ 350MHz	0.90	0.40	450	Blue
WL08□TLR56	560 @ 25MHz	10,5,2	40 @ 100MHz	0.40	1.33	400	Red

Standard Electrical Specifications

0603 Wire Wound Chip Inductors / High Current

Part Number	Inductance nH	Tolerance (%)	Quality Factor /min.	Self Resonant Frequency /min. (GHz)	Resistance DC/Max (Ohm)	Current DC/Max (mA)	Color Code
WL03□TH1N6	1.6 @ 250MHz	10,5	24	12.50	0.030	2400	Black
WL03□TH3N6	3.6 @ 250MHz	10,5	24	5.90	0.048	2300	Brown
WL03□TH3N9	3.9 @ 250MHz	10,5	25	5.90	0.054	2200	Red
WL03□TH6N8	6.8 @ 250MHz	10,5	35	5.80	0.054	2100	Orange
WL03□TH7N5	7.5 @ 250MHz	10,5	35	3.70	0.059	2100	Yellow
WL03□TH8N2	8.2 @ 250MHz	10,5	38	3.70	0.060	2000	White
WL03□TH10N	10.0 @ 250MHz	10,5,2	38	3.70	0.071	2000	Green
WL03□TH12N	12.0 @ 250MHz	10,5,2	38	3.00	0.075	2000	Blue
WL03□TH15N	15.0 @ 250MHz	10,5,2	38	2.80	0.080	1900	Violet
WL03□TH18N	18.0 @ 250MHz	10,5,2	40	2.80	0.099	1900	Gray
WL03□TH22N	22.0 @ 250MHz	10,5,2	42	2.40	0.099	1800	White
WL03□TH24N	24.0 @ 250MHz	10,5,2	42	2.40	0.105	1800	Black

0805 Wire Wound Chip Inductors / High Q

Part Number	Inductance nH	Tolerance (%)	Quality Factor /min.	Self Resonant Frequency /min. (GHz)	Resistance DC/Max (Ohm)	Current DC/Max (mA)	Color Code
WL05□TH2N5	2.5 @ 250MHz	10,5	80 @ 1500MHz	6.00	0.020	1600	Black
WL05□TH5N6	5.6 @ 250MHz	10,5	98 @ 1500MHz	6.00	0.035	1600	Brown
WL05□TH6N2	6.2 @ 250MHz	10,5	88 @ 1000MHz	4.75	0.035	1600	Red
WL05□TH6N8	6.8 @ 250MHz	10,5	80 @ 1000MHz	4.40	0.035	1600	White
WL05□TH8N2	8.2 @ 250MHz	10,5	75 @ 1000MHz	3.00	0.075	1000	Gray
WL05□TH10N	10 @ 250MHz	10,5	80 @ 1000MHz	3.00	0.060	1600	Black
WL05□TH12N	12 @ 250MHz	10,5	80 @ 1000MHz	3.00	0.045	1600	Orange
WL05□TH15N	15 @ 250MHz	10,5,2	80 @ 1000MHz	2.80	0.100	1200	Black
WL05□TH16N	16 @ 250MHz	10,5,2	72 @ 500MHz	2.95	0.060	1500	Yellow
WL05□TH18N	18 @ 250MHz	10,5,2	75 @ 500MHz	2.55	0.060	1400	Green
WL05□TH20N	20 @ 250MHz	10,5,2	70 @ 500MHz	2.05	0.055	1400	Blue
WL05□TH22N	22 @ 250MHz	10,5,2	80 @ 500MHz	2.00	0.100	1200	Black
WL05□TH27N	27 @ 250MHz	10,5,2	75 @ 500MHz	2.00	0.070	1300	Violet
WL05□TH30N	30 @ 250MHz	10,5,2	65 @ 500MHz	1.95	0.095	1200	Gray
WL05□TH39N	39 @ 250MHz	10,5,2	65 @ 500MHz	1.60	0.110	1100	White
WL05□TH48N	48 @ 200MHz	10,5,2	65 @ 500MHz	1.40	0.095	1200	Black
WL05□TH51N	51 @ 200MHz	10,5,2	65 @ 500MHz	1.40	0.120	1000	Brown

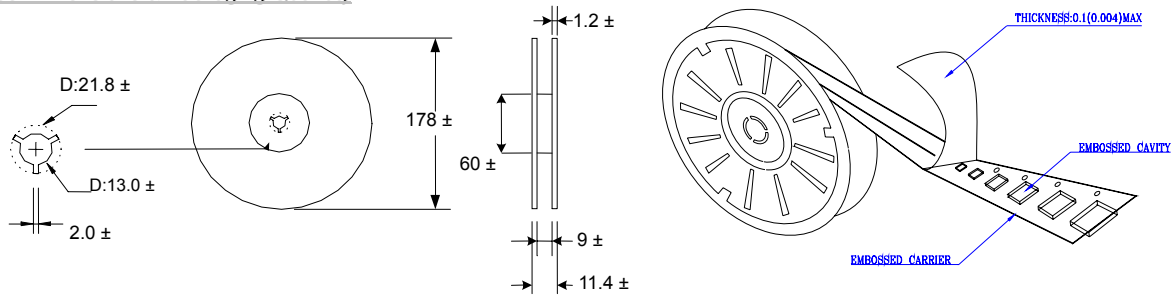
1008 Wire Wound Chip Inductors / High Q

Part Number	Inductance nH	Tolerance (%)	Quality Factor /min.	Self Resonant Frequency /min. (GHz)	Resistance DC/Max (Ohm)	Current DC/Max (mA)	Color Code
*WL08□TH3N0	3.0 @ 50MHz	10,5	70 @ 1500MHz	6.00	0.04	1600	Black
WL08□TH3N9	3.9 @ 50MHz	10,5	75 @ 1500MHz	6.00	0.05	1600	White
WL08□TH4N1	4.1 @ 50MHz	10,5	75 @ 1500MHz	6.00	0.05	1600	Brown
*WL08□TH7N8	7.8 @ 50MHz	10,5	75 @ 500MHz	3.80	0.05	1600	Red
WL08□TH10N	10 @ 50MHz	10,5,2	60 @ 500MHz	3.60	0.06	1600	Orange
WL08□TH12N	12 @ 50MHz	10,5,2	70 @ 500MHz	2.80	0.06	1500	Yellow
WL08□TH18N	18 @ 50MHz	10,5,2	62 @ 350MHz	2.70	0.07	1400	Green
WL08□TH22N	22 @ 50MHz	10,5,2	62 @ 350MHz	2.05	0.07	1400	Blue
WL08□TH33N	33 @ 50MHz	10,5,2	75 @ 350MHz	1.70	0.09	1300	Violet
WL08□TH39N	39 @ 50MHz	10,5,2	75 @ 350MHz	1.30	0.09	1300	Gray
WL08□TH47N	47 @ 50MHz	10,5,2	75 @ 350MHz	1.45	0.12	1200	White
WL08□TH56N	56 @ 50MHz	10,5,2	75 @ 350MHz	1.23	0.12	1200	Black
WL08□TH68N	68 @ 50MHz	10,5,2	80 @ 350MHz	1.15	0.13	1100	Brown
WL08□TH82N	82 @ 50MHz	10,5,2	80 @ 350MHz	1.06	0.16	1100	Red
WL08□THR10	100 @ 50MHz	10,5,2	52 @ 350MHz	0.82	0.16	1000	Orange

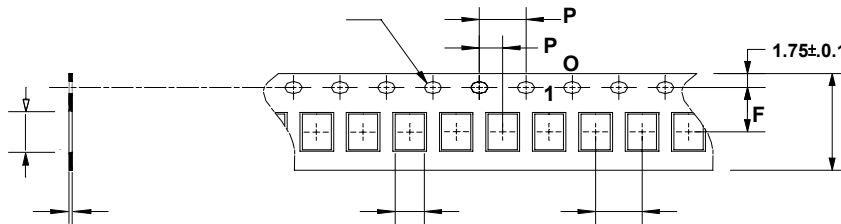
* Parts (3.0nH, 7.8nH) are wound on a low profile bobbin.

Packing

Reel Dimensions & Packaging Quantity



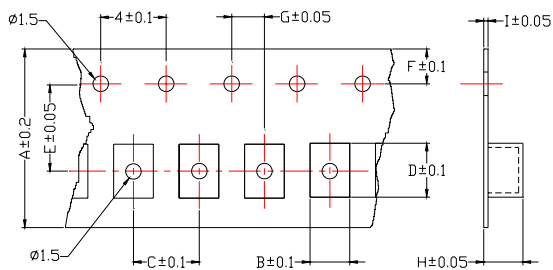
Paper Tape specification and Packaging Quantity



Unit: mm

Series	A	B	K	F	A P	P0	P1	W	Reel (EA)
WL02	0.80	1.22	0.60	3.50	2.00	4.00	2.00	8.00	4,000
WL03	1.12	1.85	0.96	3.50	4.00	4.00	2.00	8.00	4,000

Emboss Plastic Tape specification and Packaging Quantity



Unit: mm

Series	A	B	C	D	E	F	G	H	I	Reel (EA)
WL08	8	2.70	4	2.80	3.5	1.75	2	2.00	0.23	2,000
WL06	8	1.95	4	3.50	3.5	1.75	2	1.50	0.23	2,000
WL05	8	1.85	4	2.30	3.5	1.75	2	1.45	0.23	2,000
WL02	8	0.71	2	1.16	3.5	1.75	2	0.65	0.23	4,000

Environmental Characteristics

Mechanical Performance

Item	Specification	Test Method
1 Vibration Test	Appearance: No damage L change: within ±5% Q change: within ±10%	Test device shall be soldered on the substrate Oscillation Frequency: 10 to 55 to 10Hz for 1min Amplitude: 1.5mm Time: 2hrs for each axis (X, Y & Z), total 6hrs
2 Resistance to Soldering-Heat		Solder Temperature: 270±5°C Immersion Time: 10±2sec
3 Component Adhesion (Push Test)	1 lbs. For 0402 2 lbs. For 0603 3 lbs. For the rest	The device should be soldered (260±5°C for 10 seconds) to a tinned copper subs rate. A dynamiter force gauge should be applied to the side of the component. The device must with stand a minimum force of 2 or 4 pounds without a failure of adhesion on termination
4 Drop Test	No damage	Dropping chip by each side and each corner. Drop 10 times in total Drop height :100cm Drop weight:125g
5 Solderability Test	90% covered with solder.	Inductor shall be dipped in a melted solder bath at 245±5°C for 5 seconds.
6 Resistance to Solvent Test	No damage on appearance and marking.	MIL-STD202F, Method 215D

Environmental Characteristics

Electrical Performance Test

Item		Specification	Test Method
1	Inductance	Refer to standard electrical characteristic spec.	HP4291B
2	Q		HP4291B
3	SRF		HP8753D
4	DC Resistance RDC		Micro-Ohm meter (Gom-801G)
5	Rated Current IDC		Applied the current to coils, The inductance change should be less than 10% to initial value
6	Over Load Test	Inductors shall have no evidence of electrical and mechanical damage	Applied 2 times of rated allowed DC current to inductor for a period of 5 minute
7	Withstanding Voltage Test	Inductors shall be no evidence of electrical and mechanical damage.	AC voltage of 500 VAC applied between inductors terminal and case for 1 minute.
8	Insulation Resistance Test	1000M ohm min	100 VDC applied between inductor terminal and case

Climatic Test

Item		Specification	Test Method															
1	Temperature Characteristic	Appearance: No damage L change: within $\pm 10\%$	$-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$															
2	Humidity Test	Q change: within $\pm 20\%$	Temperature: $40 \pm 2^{\circ}\text{C}$ Relative Humidity: 90~95% Time: 96hrs ± 2 hrs Measured after exposure in the room condition for 2hrs															
3	Low Temperature Storage Test		Temperature: $-40 \pm 2^{\circ}\text{C}$ Time: 96 ± 2 hrs Inductors are tested after 1 hour at room temperature															
4	Thermal Shock Test		One cycle: <table border="1" data-bbox="746 1312 1281 1541"> <thead> <tr> <th>Step</th> <th>Temperature ($^{\circ}\text{C}$)</th> <th>Time (min)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-25 ± 3</td> <td>30</td> </tr> <tr> <td>2</td> <td>25 ± 2</td> <td>15</td> </tr> <tr> <td>3</td> <td>125 ± 3</td> <td>30</td> </tr> <tr> <td>4</td> <td>25 ± 2</td> <td>15</td> </tr> </tbody> </table> Total: 5 cycles	Step	Temperature ($^{\circ}\text{C}$)	Time (min)	1	-25 ± 3	30	2	25 ± 2	15	3	125 ± 3	30	4	25 ± 2	15
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1	-25 ± 3	30																
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5	High Temperature Storage Test		Temperature: $125 \pm 2^{\circ}\text{C}$ Time: 96 ± 2 hrs Measured after exposure in the room condition for 1hr															
6	High Temperature Load Life Test	There should be no evidence of short of open circuit.	Temperature: $85 \pm 2^{\circ}\text{C}$ Time: 1000 ± 12 hrs Load: Allowed DC current															
7	Humidity Load Life		Temperature: $40 \pm 2^{\circ}\text{C}$ Relative Humidity: 90~95% Time: 1000 ± 12 hrs Load: Allowed DC current															

※Storage Temperature : $25 \pm 3^{\circ}\text{C}$; Humidity: <80%RH