

Specification

Part No.	Inductance ¹ (nH)	Percent Tolerance	Q ² Min (MHz)	S.R.F. ³ Min (MHz)	RDC ⁴ Max (OHM)	IDC ⁵ Max (MA)	Color Cdding
WICS 0805- 2N2 □	2.2 @ 250 MHz	K	50 @ 1000	7900	0.05	800	Violet
WICS 0805- 2N7 □	2.7 @ 250 MHz	K, J	50 @ 1500	7900	0.58	800	Blue
WICS 0805- 2N8 □	2.8 @ 250 MHz	K, J	55 @ 1500	7900	0.06	800	Gray
WICS 0805- 3N0 □	3.0 @ 250 MHz	K, J	55 @ 1500	7900	0.08	800	White
WICS 0805- 3N3 □	3.3 @ 250 MHz	K, J	45 @ 1500	7900	0.12	600	Black
WICS 0805- 5N1 □	5.1 @ 250 MHz	K, J	60 @ 1000	5800	0.06	600	Yellow
WICS 0805- 5N6 □	5.6 @ 250 MHz	K, J	65 @ 1000	5500	0.08	600	Orange
WICS 0805- 6N2 □	6.2 @ 250 MHz	K, J	50 @ 1000	5500	0.11	800	Violet
WICS 0805- 6N8 □	6.8 @ 250 MHz	K, J	50 @ 1000	5500	0.11	600	Brown
WICS 0805- 7N5 □	7.5 @ 250 MHz	K, J	50 @ 1000	4500	0.14	600	Green
WICS 0805- 8N2 □	8.2 @ 250 MHz	K, J	50 @ 1000	4700	0.16	600	Red
WICS 0805- 8N7 □	8.7 @ 250 MHz	K, J	50 @ 1000	4700	0.23	600	Violet
WICS 0805- 10N □	10 @ 250 MHz	K, J, G	60 @ 500	4200	0.10	600	Blue
WICS 0805- 12N □	12 @ 250 MHz	K, J, G	50 @ 500	4000	0.15	600	Orange
WICS 0805- 14N □	14 @ 250 MHz	K, J, G	50 @ 500	3400	0.17	600	Yellow
WICS 0805- 15N □	15 @ 250 MHz	K, J, G	50 @ 500	3400	0.17	700	Yellow
WICS 0805- 18N □	18 @ 250 MHz	K, J, G	50 @ 500	3300	0.20	600	Green
WICS 0805- 22N □	22 @ 250 MHz	K, J, G	55 @ 500	2600	0.22	500	Blue
WICS 0805- 24N □	24 @ 250 MHz	K, J, G	50 @ 500	2000	0.22	500	Gray
WICS 0805- 27N □	27 @ 250 MHz	K, J, G	55 @ 500	2500	0.25	500	Violet
WICS 0805- 33N □	33 @ 250 MHz	K, J, G	60 @ 500	2050	0.27	500	Gray
WICS 0805- 36N □	36 @ 250 MHz	K, J, G	55 @ 500	1700	0.27	500	Orange
WICS 0805- 39N □	39 @ 250 MHz	K, J, G	60 @ 500	2000	0.29	500	White
WICS 0805- 47N □	47 @ 200 MHz	K, J, G	60 @ 500	1650	0.31	700	Black
WICS 0805- 56N □	56 @ 200 MHz	K, J, G	60 @ 500	1550	0.34	500	Brown
WICS 0805- 68N □	68 @ 200 MHz	K, J, G	60 @ 500	1450	0.38	500	Red
WICS 0805- 75N □	75 @ 200 MHz	K, J, G	60 @ 500	1400	0.40	400	Violet
WICS 0805- 82N □	82 @ 150 MHz	K, J, G	65 @ 500	1300	0.42	400	Orange
WICS 0805- 91N □	91 @ 150 MHz	K, J, G	65 @ 500	1200	0.48	400	Black
WICS 0805- R10 □	100 @ 150 MHz	K, J, G	65 @ 500	1200	0.46	400	Yellow
WICS 0805- R12 □	120 @ 150 MHz	K, J, G	50 @ 250	1100	0.51	400	Green
WICS 0805- R15 □	150 @ 100 MHz	K, J, G	50 @ 250	920	0.56	400	Blue
WICS 0805- R18 □	180 @ 100 MHz	K, J, G	50 @ 250	870	0.64	400	Violet
WICS 0805- R20 □	200 @ 100 MHz	K, J, G	50 @ 250	865	0.68	400	Red
WICS 0805- R22 □	220 @ 100 MHz	K, J, G	50 @ 250	850	0.70	400	Gray
WICS 0805- R24 □	240 @ 100 MHz	K, J, G	44 @ 250	690	1.00	350	Red
WICS 0805- R27 □	270 @ 100 MHz	K, J, G	48 @ 250	650	1.00	350	White

WICS 0805-	R33	□	330	@	100	MHz	K, J, G	48 @	250	750	1.40	310	Black
WICS 0805-	R36	□	360	@	100	MHz	K, J, G	48 @	250	650	1.45	300	Orange
WICS 0805-	R39	□	390	@	100	MHz	K, J, G	48 @	250	560	1.50	290	Brown
WICS 0805-	R43	□	430	@	50	MHz	K, J, G	33 @	100	430	1.70	270	Blue
WICS 0805-	R47	□	470	@	50	MHz	K, J, G	30 @	100	375	1.76	250	Violet
WICS 0805-	R56	□	560	@	25	MHz	K, J, G	23 @	50	340	1.90	230	Orange
WICS 0805-	R62	□	620	@	25	MHz	K, J, G	23 @	50	220	2.20	210	White
WICS 0805-	R68	□	680	@	25	MHz	K, J, G	23 @	50	188	2.20	190	Green
WICS 0805-	R75	□	750	@	25	MHz	K, J, G	23 @	50	200	2.30	180	Violet
WICS 0805-	R82	□	820	@	25	MHz	K, J, G	23 @	50	215	2.35	180	Blue
WICS 0805-	R91	□	910	@	25	MHz	K, J, G	22 @	50	210	2.40	180	Yellow
WICS 0805-	1R0	□	1000	@	25	MHz	K, J, G	22 @	50	200	2.45	180	Violet
WICS 0805-	1R2	□	1200	@	7.9	MHz	K, J, G	16 @	7.9	160	2.45	170	Green
WICS 0805-	1R5	□	1500	@	7.9	MHz	K, J, G	16 @	7.9	120	2.50	170	Black
WICS 0805-	1R8	□	1800	@	7.9	MHz	K, J, G	16 @	7.9	80	2.50	170	Brown
WICS 0805-	2R2	□	2200	@	7.9	MHz	K, J, G	16 @	7.9	60	2.70	160	Red
WICS 0805-	2R7	□	2700	@	7.9	MHz	K, J, G	16 @	7.9	50	3.80	160	Orange

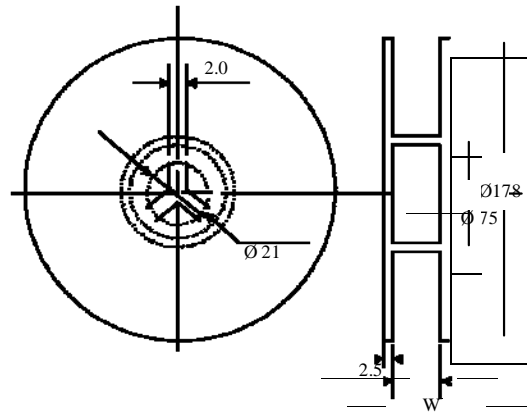
1. Inductance is measured in HP-4287A RF LCR meter with HP-16193 fixture.
2. Q is measured in HP-4287A RF LCR meter with HP-16193 fixture.
3. SRF is measured in HP-8753E RF network analyzer.
4. RDC is measured in HP-4338B milliohmeter.
5. For 15 °C Rise.
6. Tolerance : B=±0.2nH , S=±0.3nH , G=±2% , J=±5% , K=±10%

PACKAGING INFORMATION

Packing Quantity

Type	Pcs / Reel
WICS 0402	10,000
WICS 0603	3,000
WICS 0805	2,000
WICS 1008	2,000
WICS 1210	2,000
WICS 1812	750

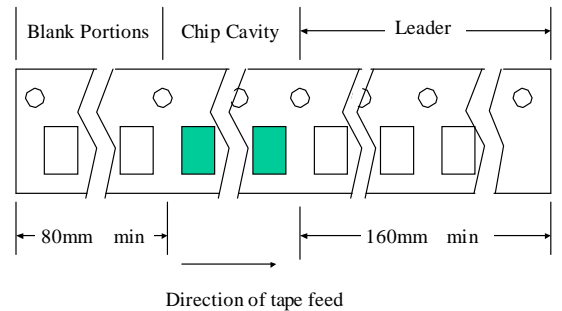
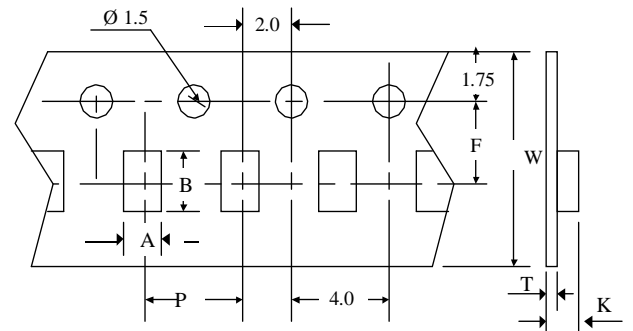
Reel Dimension



Tape Dimensions (unit: m/m)

Type	Chip Cavity		Insert Pitch		Tape Thickness		Tape Width
	A	B	P	F	K	T	W
WICS 0402	0.70	1.20	2.00	3.50	0.70	0.10	8.00
WICS 0603	1.20	1.80	4.00	3.50	1.20	0.20	8.00
WICS 0805	1.40	2.30	4.00	3.50	1.40	0.20	8.00
WICS 1008	2.20	2.80	4.00	3.50	1.80	0.20	8.00
WICS 1210	2.80	3.60	4.00	3.50	2.40	0.20	8.00
WICS 1812	3.60	5.00	8.00	5.50	3.60	0.30	12.00

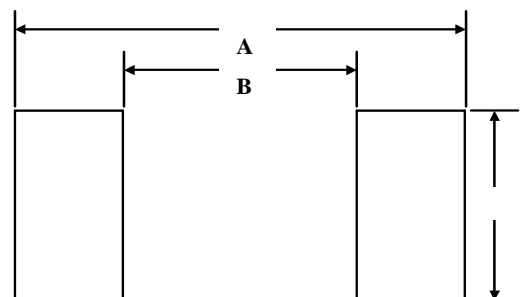
Tape Dimension



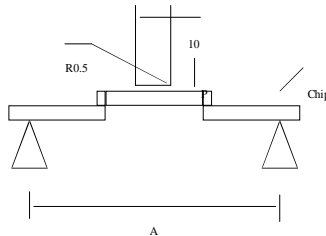
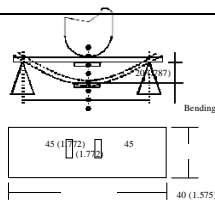
Pattern Dimensions (unit: m/m)

Type	A	B	C
WICS 0402	1.20	0.45	0.65
WICS 0603	1.90	0.65	1.00
WICS 0805	2.60	0.75	1.20
WICS 1008	3.80	1.20	1.80
WICS 1210	4.00	1.70	2.30
WICS 1812	5.30	3.00	3.00

Recommended Pattern



RELIABILITY SPECIFICATION

	ITEM	CONDITION	SPECIFICATION
Endurance Characteristics	Solderability	Dip pads in flux and then in a solder pot (63Sn / 37Pb) at 230 °C ± 5°C for 5 seconds.	A minimum of 95% of the metalized area must be covered with solder.
	Resistance to Soldering Heat	Dip components into flux and then into a solder pot containing 63Sn / 37Pb at 260 °C ± 5 °C for 5 ± 1 seconds.	Change In L / Z (Inductance / Impedance): MIC / WIC Series: Within ± 5% or ± 0.3nH Other Series: Within ± 20%
	Vibration (Random)	Components shall be randomly vibrated at amplitude of 1.5mm and frequency of 10 - 55 Hz: 0.04 G / Hz for a minimum of 15 minutes per axis for each of the three axes.	
	Cold Temperature Storage	Components shall be stored at temperature of -40 °C ± 2 °C for 1000 ± 48 hours. Then components shall be subjected to standard atmospheric conditions for 1 hour. After that, measurement shall be made.	Change In Q: MIC/WIC: Within ± 10% Others: Within ± 30% Change In Appearance: Without distinct damage
	High Temperature Storage	Components shall be stored at temperature of +85 °C ± 2 °C for 1000 ± 48 hours. Then components shall be subjected to standard atmospheric conditions for 1 hour. After that, measurement shall be made.	
	Moisture Resistance	Components shall be stored in the chamber at 45 °C at 90 - 95 R. H. for 240 hours. Then components are to be tested after 2 hours at room temperature.	Components shall not have a shorted or open winding.
	High Temperature with Loaded	Components shall be stored in the chamber at +85 °C for 1000 hours with rated current applied. Components shall be tested at the beginning of test at 500 hours and 1000 hours. Then components are to be tested after 1 hour at room temperature.	
	Bending Strength		Components shall not be damaged by the forces conditions applied on the test specified as follows: Chip Size: 0402: >1Kg 0603/0805: >3Kg 1206/1210: >6Kg 1816/1812: >8Kg
Flexure Strength		No Mechanical Damages.	