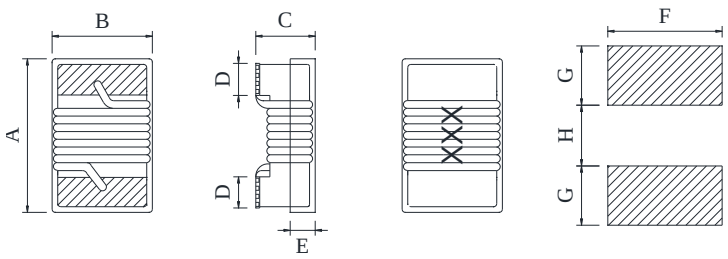
Wound Inductors(High Frequency) - YCWI0603ST Series

EXTERNAL DIMENSIONS

(Unit: mm)



Type	A	B	C	D	E	F	G	H
YCWI0603ST	1.68±0.2	1.0±0.2	0.85±0.2	0.35±0.1	0.5Ref.	1.20	0.64	0.64

YCWI0603ST Series

Part Number	Inductance (nH)	Tolerance (%)	Q Min	S.R.F (MHz) Min.	DCR (Ω) Max.	Rated DC Current (mA)Max.
YCWI0603ST-1N6□S	1.6 @ 250MHz	K,J	24	12500	0.030	700
YCWI0603ST-1N8□S	1.8 @ 250MHz	K,J	16	12500	0.045	700
YCWI0603ST-3N6□S	3.6 @ 250MHz	K,J	22	5900	0.063	700
YCWI0603ST-3N9□S	3.9 @ 250MHz	K,J	22	6900	0.080	700
YCWI0603ST-4N3□S	4.3 @ 250MHz	K,J	22	5900	0.063	700
YCWI0603ST-4N7□S	4.7 @ 250MHz	K,J	20	5800	0.116	700
YCWI0603ST-5N1□S	5.1 @ 250MHz	K,J	20	5700	0.140	700
YCWI0603ST-5N6□S	5.6 @ 250MHz	K,J,G	18	4760	0.150	700
YCWI0603ST-6N8□S	6.8 @ 250MHz	K,J,G	27	5800	0.110	700
YCWI0603ST-7N5□S	7.5 @ 700MHz	K,J,G	28	4800	0.106	700
YCWI0603ST-8N2□S	8.2 @ 250MHz	K,J,G	28	4200	0.120	700
YCWI0603ST-8N7□S	8.7 @ 250MHz	K,J,G	28	4600	0.109	700
YCWI0603ST-9N5□S	9.1 @ 250MHz	J,G	28	5400	0.135	700
YCWI0603ST-10N□S	10 @ 250MHz	J,G	31	4800	0.130	700
YCWI0603ST-11N□S	11 @ 250MHz	J,G	33	4000	0.130	700
YCWI0603ST-12N□S	12 @ 250MHz	J,G	35	4000	0.130	700
YCWI0603ST-15N□S	15 @ 250MHz	J,G	35	4000	0.170	700
YCWI0603ST-16N□S	16 @ 250MHz	J,G	34	3300	0.104	700
YCWI0603ST-18N□S	18 @ 350MHz	J,G	35	3100	0.170	700
YCWI0603ST-20N□S	20 @ 250MHz	J,G	36	3000	0.180	700
YCWI0603ST-22N□S	22 @ 350MHz	J,G	38	3000	0.190	700
YCWI0603ST-24N□S	24 @ 250MHz	J,G	37	2650	0.190	700
YCWI0603ST-27N□S	27 @ 250MHz	J,G	40	2800	0.220	600
YCWI0603ST-30N□S	30 @ 250MHz	J,G	37	2250	0.220	600

NOTE: □Tolerance value: B=±0.2nH, S=±0.3nH, G=±2%, J=±5% , K=±10%.

SMT

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Part Number	Inductance (nH)	Tolerance (%)	Q Min	S.R.F (MHz) Min.	DCR (Ω) Max.	Rated DC Current (mA)Max.
YCWI0603ST-33N□S	33 @ 250MHz	J,G	40	2300	0.220	600
YCWI0603ST-36N□S	36 @ 250MHz	J,G	38	2080	0.250	600
YCWI0603ST-39N□S	39 @ 250MHz	J,G	40	2200	0.250	600
YCWI0603ST-43N□S	43 @ 250MHz	J,G	39	2000	0.280	600
YCWI0603ST-47N□S	47 @ 200MHz	J,G	38	2000	0.280	600
YCWI0603ST-51N□S	51 @ 200MHz	J,G	35	1900	0.280	600
YCWI0603ST-56N□S	56 @ 200MHz	J,G	38	1900	0.310	600
YCWI0603ST-68N□S	68 @ 200MHz	J,G	37	1700	0.340	600
YCWI0603ST-72N□S	72 @ 150MHz	J,G	34	1700	0.490	400
YCWI0603ST-75N□S	75 @ 150MHz	J,G	34	1700	0.520	400
YCWI0603ST-82N□S	82 @ 150MHz	J,G	34	1700	0.540	400
YCWI0603ST-R10□S	100 @ 150MHz	J,G	34	1400	0.580	400
YCWI0603ST-R11□S	110 @ 150MHz	J,G	32	1350	0.610	300
YCWI0603ST-R12□S	120 @ 150MHz	J,G	32	1300	0.750	300
YCWI0603ST-R15□S	150 @ 150MHz	J,G	28	990	0.920	280
YCWI0603ST-R18□S	180 @ 100MHz	J,G	25	990	1.250	240
YCWI0603ST-R20□S	200 @ 100MHz	J,G	25	900	1.980	200
YCWI0603ST-R22□S	220 @ 100MHz	K,J	25	900	2.100	200
YCWI0603ST-R25□S	250 @ 100MHz	J,G	25	822	3.550	120
YCWI0603ST-R27□S	270 @ 100MHz	J,G	24	520	2.300	170
YCWI0603ST-R33□S	330 @ 100MHz	J,G	24	500	3.630	160
YCWI0603ST-R39□S	390 @ 100MHz	J,G	22	400	3.700	130
YCWI0603ST-R47□S	470 @ 100MHz	J,G	20	300	3.500	100

NOTE: □Tolerance value: B=±0.2nH, S=±0.3nH, G=±2%, J=±5% , K=±10%.

Test Equipment and Conditions

- Inductance measured using HP-4286A LCR meter with HP-16193A test fixture.
- Q measured with HP-4286A WITH HP-16193 impedance analyzer meter.
- For 20℃ rise.
- According to EIA-481 Standard.

Introduction

- Wound Chip Inductors offers the best overall combination of low cost, close tolerance, better Q factor and higher self-resonant frequency than Multilayer chip inductor. which are widely used in communication application region

Feature

- High frequency applications
- Close tolerance application. 2% tolerance is available for particular inductance values
- Small footprint as well as low profile
- High quality factor
- Available for custom values
- Material available for ceramic or ferrite

Application

For high-frequency application such as:

- Mobile phones
- Portable phones
- Cordless phones
- Pagers
- PHS

SMT