

Product Specification

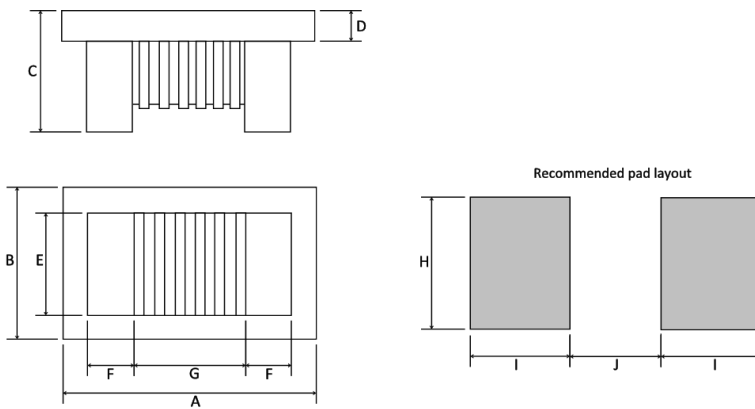


This product is certified to comply with the RoHS Directive 2002/95/EC.

WC0603 Wirewound Ceramic Chip Inductor



- Industry standard 0603 size
- Small size
- High SRF
- Good Q
- Wide inductance range
- Tight tolerance



Size	A	B	C	D	E	F	G	H	I	J
0603	1.80	1.12	1.02	0.38	0.76	0.33	0.86	1.02	0.64	0.76

Measurements in mm

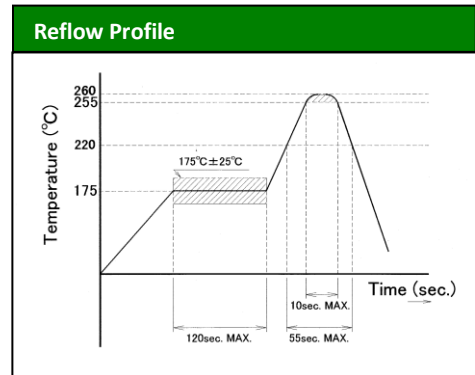
Specification	
Inductance range	1.6 ~ 470nH
SRF	to 12.5GHz
Q	to 89 @ 1.7GHz
Temp. range	-40 to +125°C
DCR	From 0.04Ω
Current	to 700mA
Storage temp.	-40 to +125°C

'*' suffix denotes RoHS Compliant

Standard packing: 4k per 7" reel (T/R)
Smaller quantities: Bulk

Sample kits and designer kits are available

Ordering Code Guide			
Series Code	Tolerance	Value	RoHS
WC0603	G = ±2%	1N0 = 1nH	*
	J = ±5%	10N = 10nH	
	K = ±10%	R10 = 100nH	
		1R0 = 1uH	



Issue 2 27/07/10

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MAGNA Frequency Components

WC0603 Wirewound Ceramic Chip Inductor

Value Code	Inductance (nH)	Tolerance	Test Freq. (MHz)	Q Min.	SRF Min. (GHz)	RDC Max. (Ω)	IDC Max. (mA)	900MHz		1.7GHz	
								L Typ	Q Typ	L Typ	Q Typ
1N6	1.6	±10%,±5%	250	16	12.50	0.040	700	1.53	35	1.58	55
1N8	1.8	±10%,±5%	250	16	12.50	0.045	700	1.63	35	1.66	50
2N2	2.2	±10%,±5%	250	15	6.00	0.100	700	2.18	41	2.20	64
2N3	2.3	±10%,±5%	250	16	4.00	0.140	700	2.32	32	2.35	40
3N3	3.3	±10%,±5%,±2%	250	22	6.00	0.080	700	3.35	47	3.40	65
3N6	3.6	±10%,±5%,±2%	250	22	5.80	0.063	700	3.53	49	3.58	65
3N9	3.9	±10%,+5%,±2%	250	22	6.00	0.080	700	3.95	49	3.96	67
4N3	4.3	±10%,+5%,±2%	250	22	5.80	0.063	700	4.32	49	4.43	67
4N5	4.5	±10%,+5%,±2%	250	20	5.80	0.120	700	4.74	55	4.97	92
4N7	4.7	±10%,+5%,±2%	250	25	5.80	0.120	700	4.65	53	4.80	67
5N1	5.1	±10%,+5%,±2%	250	20	5.80	0.160	700	5.13	47	5.36	56
5N6	5.6	±10%,+5%,±2%	250	20	5.80	0.170	700	5.53	56	5.86	77
6N2	6.2	±10%,+5%,±2%	250	25	5.80	0.110	700	6.28	60	6.40	85
6N3	6.3	±10%,+5%,±2%	250	25	5.80	0.110	700	6.67	41	6.86	62
6N8	6.8	±10%,+5%,±2%	250	27	5.80	0.110	700	6.75	60	7.10	81
7N5	7.5	±10%,+5%,±2%	250	27	4.80	0.110	700	7.39	62	7.71	81
8N2	8.2	±10%,+5%,±2%	250	27	4.80	0.110	700	8.25	64	8.40	81
8N7	8.7	±10%,+5%,±2%	250	27	4.80	0.110	700	8.84	62	9.38	58
9N1	9.1	±10%,+5%,±2%	250	35	4.80	0.130	700	9.20	70	9.70	80
9N5	9.5	±10%,+5%,±2%	250	27	4.80	0.130	700	9.64	59	10.5	61
10N	10	±10%,+5%,±2%	250	31	4.80	0.130	700	10.0	66	10.6	83
11N	11	±10%,+5%,±2%	250	31	4.00	0.086	700	11.3	53	12.1	56
12N	12	±10%,+5%,±2%	250	35	4.00	0.130	700	12.3	72	13.5	83
15N	15	±10%,+5%,±2%	250	35	4.00	0.170	700	15.4	64	16.8	89
16N	16	±10%,+5%,±2%	250	35	3.30	0.110	700	16.5	55	18.0	52
17N	17	±10%,+5%,±2%	250	35	3.20	0.170	700	17.6	56	19.4	44
18N	18	±10%,+5%,±2%	250	35	3.10	0.170	700	18.7	70	21.4	69
20N	20	±10%,+5%,±2%	250	40	3.00	0.190	700	20.7	80	23.5	30
22N	22	±10%,+5%,±2%	250	38	3.00	0.190	700	22.8	73	26.1	71
23N	23	±10%,+5%,±2%	250	38	2.85	0.190	700	24.1	71	28.0	71
24N	24	±10%,+5%,±2%	250	36	2.80	0.130	700	25.7	45	30.9	40
27N	27	±10%,+5%,±2%	250	40	2.80	0.220	600	29.2	74	34.6	65
30N	30	±10%,+5%,±2%	250	37	2.80	0.153	600	31.4	47	39.8	28
33N	33	±10%,+5%,±2%	250	40	2.30	0.220	600	36.0	67	49.5	42
36N	36	±10%,+5%,±2%	250	37	2.30	0.250	600	39.1	47	48.9	24
39N	39	±10%,+5%,±2%	250	40	2.20	0.250	600	42.7	60	60.2	40
43N	43	±10%,+5%,±2%	200	38	2.00	0.280	600	46.9	44	60.3	21
47N	47	±10%,+5%,±2%	200	38	2.00	0.280	600	52.2	62	77.2	35
51N	51	±10%,+5%,±2%	200	35	1.90	0.280	600	55.5	69	82.2	34
56N	56	±10%,+5%,±2%	200	38	1.90	0.310	600	62.5	56	97.0	26
62N	62	±10%,+5%,±2%	200	37	1.80	0.34	600	68.0	40	110	10
68N	68	±10%,+5%,±2%	200	37	1.70	0.340	600	80.5	54	168	21
72N	72	±10%,+5%,±2%	150	34	1.70	0.490	400	82.0	53	135	20
82N	82	±10%,+5%,±2%	150	34	1.70	0.540	400	96.2	54	177	21
91N	91	±10%,+5%,±2%	150	30	1.70	0.500	400	110	50	416	6
R10	100	±10%,+5%,±2%	150	34	1.40	0.580	400	124	49	-	-
R11	110	±10%,+5%,±2%	150	32	1.35	0.610	300	138	43	-	-
R12	120	±10%,+5%,±2%	150	32	1.30	0.650	300	166	39	-	-
R13	130	±10%,+5%,±2%	150	30	1.40	0.720	300	185	60	-	-
R14	140	±10%,+5%,±2%	100	28	1.30	0.870	280	190	80	-	-
R15	150	±10%,+5%,±2%	100	32	1.30	0.950	280	230	25	-	-
R16	160	±10%,+5%,±2%	100	25	1.30	1.400	280	215	20	-	-
R18	180	±10%,+5%,±2%	100	25	1.25	1.400	250	305	22	-	-
R22	220	±10%,+5%,±2%	100	25	1.20	1.600	250	377	21	-	-
R26	260	±10%,+5%,±2%	100	25	1.00	2.000	200	469	21	-	-
R27	270	±10%,+5%,±2%	100	25	0.90	2.100	200	523	19	-	-
R28	280	±10%,+5%,±2%	100	25	1.00	2.400	150	524	18	-	-
R30	300	±10%,+5%,±2%	100	25	0.75	2.500	150	539	21	-	-
R33	330	±10%,+5%,±2%	100	25	0.90	3.800	100	680	20	-	-
R39	390	±10%,+5%,±2%	100	25	0.90	4.350	100	734	29	-	-
R47	470	±10%,+5%,±2%	100	23	0.60	3.600	80	-	-	-	-