

Product Specification

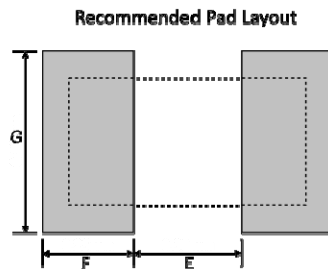
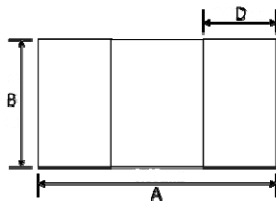
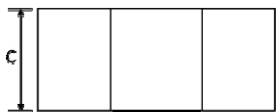


This product is certified to comply with the RoHS Directive 2002/95/EC.

FC0603 Thin Film Ceramic Chip Inductor



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



Size	A	B	C	D	E	F	G
0603	1.70	0.90	0.55	0.50	0.90	0.60	1.10

Measurements in mm

Specification

Inductance range	1.0 ~ 100nH
SRF	to 13GHz
Q	15
Temp. range	-55 to +125°C
DCR	from 0.35Ω
Current	to 800mA
Storage temp.	-55 to +125°C

'*' suffix denotes RoHS Compliant

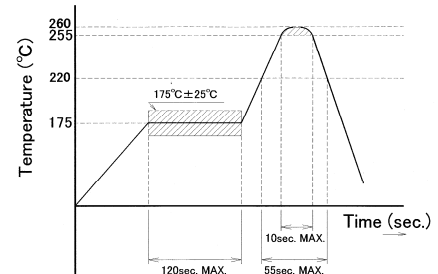
Standard packing: 5k per 7" reel (T/R)
Smaller quantities: Bulk

Sample kits and designer kits are available

Ordering Code Guide

Series Code	Tolerance	Value	RoHS
FC0603	J = ±5%	1N0 = 1nH	*
	G = ±2%	10N = 10nH	
	H = ±1%	R10 = 100nH	
	S = ±0.3nH	1R0 = 1uH	
	V = ±0.2nH		
	T = ±0.1nH		

Reflow Profile



Issue 2 09/09/11

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Tel: +44 1223 834800 Fax: +44 1223 834600 Email: sales@magnafrequency.com

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FC0603 Thin Film Ceramic Chip Inductor

Value Code	Inductance (nH)	Tolerance	Test Freq. (MHz)	Q Min.	Test Freq. (MHz)	SRF Min. (GHz)	RDC Max. (Ω)	IDC Max. (mA)
1N0	1.0	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	300	15	300	13.0	0.35	800
1N2	1.2	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	300	15	300	13.0	0.35	800
1N5	1.5	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	300	15	300	10.0	0.35	800
1N8	1.8	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	300	15	300	10.0	0.35	300
2N2	2.2	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	300	15	300	8.0	0.35	300
2N7	2.7	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	300	15	300	6.0	0.45	300
3N3	3.3	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	300	15	300	6.0	0.45	300
3N9	3.9	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	300	15	300	6.0	0.45	300
4N7	4.7	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	300	15	300	5.0	0.55	300
5N6	5.6	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	300	15	300	5.0	0.65	300
6N8	6.8	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	300	15	300	5.0	0.75	300
8N2	8.2	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	300	15	300	4.0	0.95	300
10N	10	$\pm 1\%, \pm 2\%, \pm 5\%$	300	15	300	4.0	0.95	300
12N	12	$\pm 1\%, \pm 2\%, \pm 5\%$	300	15	300	3.0	1.05	300
15N	15	$\pm 1\%, \pm 2\%, \pm 5\%$	300	15	300	3.0	1.35	300
18N	18	$\pm 1\%, \pm 2\%, \pm 5\%$	300	15	300	2.0	1.65	300
22N	22	$\pm 1\%, \pm 2\%, \pm 5\%$	300	15	300	2.0	1.95	250
27N	27	$\pm 1\%, \pm 2\%, \pm 5\%$	300	15	300	2.0	2.35	250
33N	33	$\pm 1\%, \pm 2\%, \pm 5\%$	300	15	300	1.5	2.75	250
39N	39	$\pm 1\%, \pm 2\%, \pm 5\%$	300	15	300	1.5	3.00	200
47N	47	$\pm 1\%, \pm 2\%, \pm 5\%$	300	15	300	1.5	3.00	200
56N	56	$\pm 1\%, \pm 2\%, \pm 5\%$	300	15	300	1.0	5.00	150
68N	68	$\pm 1\%, \pm 2\%, \pm 5\%$	300	15	300	1.0	5.00	150
R10	100	$\pm 2\%, \pm 5\%$	300	15	300	1.0	7.50	100

Issue 2 09/09/11