

# Product Specification



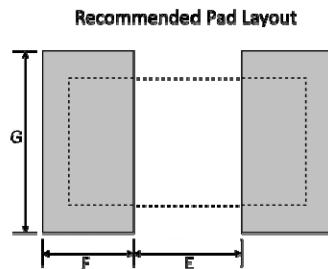
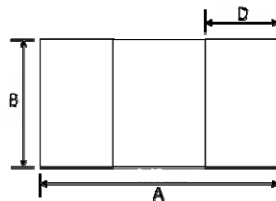
This product is certified to comply with the RoHS Directive 2002/95/EC.



## FC0402 Thin Film Ceramic Chip Inductor



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



Size	A	B	C	D	E	F	G
0402	1.05	0.55	0.40	0.20	0.50	0.45	0.80

Measurements in mm

### Specification

<b>Inductance range</b>	0.2 ~ 33nH
<b>SRF</b>	to 14GHz
<b>Q</b>	13
<b>Temp. range</b>	-55 to +125°C
<b>DCR</b>	from 0.1Ω
<b>Current</b>	to 800mA
<b>Storage temp.</b>	-55 to +125°C

'\*' suffix denotes RoHS Compliant

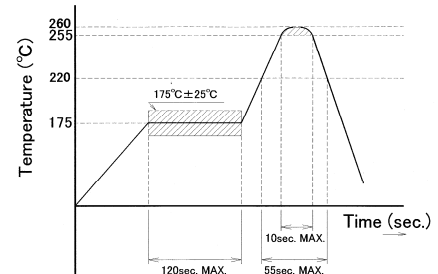
Standard packing: 10k per 7" reel (T/R)  
Smaller quantities: Bulk

Sample kits and designer kits are available

### Ordering Code Guide

Series Code	Tolerance	Value	RoHS
FC0402	J = ±5%	1N0 = 1nH	*
	G = ±2%	10N = 10nH	
	S = ±0.3nH	R10 = 100nH	
	V = ±0.2nH	1R0 = 1uH	
	T = ±0.1nH		

### Reflow Profile



Issue 2 09/09/11

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**MAGNA** Frequency Components

## FC0402 Thin Film Ceramic Chip Inductor

Value Code	Inductance (nH)	Tolerance	Test Freq. (MHz)	Q Min.	Test Freq. (MHz)	SRF Min. (GHz)	RDC Max. ( $\Omega$ )	IDC Max. (mA)
0N2	0.2	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	14.0	0.10	800
0N4	0.4	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	14.0	0.10	800
0N8	0.8	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	14.0	0.15	700
1N0	1.0	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	12.0	0.15	700
1N1	1.1	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	12.0	0.15	700
1N2	1.2	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	12.0	0.15	700
1N3	1.3	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	10.0	0.25	700
1N4	1.4	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	10.0	0.25	700
1N5	1.5	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	10.0	0.25	700
1N6	1.6	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	10.0	0.25	560
1N7	1.7	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	10.0	0.25	560
1N8	1.8	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	10.0	0.25	560
1N9	1.9	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	8.0	0.35	560
2N0	2.0	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	8.0	0.35	560
2N1	2.1	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	8.0	0.35	440
2N2	2.2	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	8.0	0.35	440
2N3	2.3	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	8.0	0.35	440
2N4	2.4	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	8.0	0.35	440
2N5	2.5	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	8.0	0.35	440
2N6	2.6	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	8.0	0.35	440
2N7	2.7	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	8.0	0.35	440
2N8	2.8	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	6.0	0.45	380
2N9	2.9	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	6.0	0.45	380
3N0	3.0	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	6.0	0.45	380
3N1	3.1	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	6.0	0.45	380
3N2	3.2	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	6.0	0.45	380
3N3	3.3	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	6.0	0.45	380
3N4	3.4	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	6.0	0.55	380
3N5	3.5	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	6.0	0.55	380
3N6	3.6	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	6.0	0.55	380
3N7	3.7	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	6.0	0.55	340
3N8	3.8	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	6.0	0.55	340
3N9	3.9	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	6.0	0.55	340
4N7	4.7	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	6.0	0.65	320
5N6	5.6	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	6.0	0.85	280
5N9	5.9	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	6.0	0.85	280
6N8	6.8	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	6.0	1.05	260
7N2	7.2	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	6.0	1.05	260
8N0	8.0	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	5.5	1.25	220
8N2	8.2	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	5.5	1.25	220
9N1	9.1	$\pm 0.1\text{nH}, \pm 0.2\text{nH}, \pm 0.3\text{nH}$	500	13	500	5.5	1.25	220
10N	10	$\pm 1\%, \pm 2\%, \pm 5\%$	500	13	500	4.5	1.35	200
12N	12	$\pm 1\%, \pm 2\%, \pm 5\%$	500	13	500	3.7	1.55	180
13N	13	$\pm 1\%, \pm 2\%, \pm 5\%$	500	13	500	3.7	1.75	180
15N	15	$\pm 1\%, \pm 2\%, \pm 5\%$	500	13	500	3.3	1.75	130
17N	17	$\pm 1\%, \pm 2\%, \pm 5\%$	500	13	500	3.1	1.95	100
18N	18	$\pm 1\%, \pm 2\%, \pm 5\%$	500	13	500	3.1	2.15	100
20N	20	$\pm 1\%, \pm 2\%, \pm 5\%$	500	13	500	2.8	2.55	90
22N	22	$\pm 1\%, \pm 2\%, \pm 5\%$	500	13	500	2.8	2.65	90
27N	27	$\pm 1\%, \pm 2\%, \pm 5\%$	500	13	500	2.5	3.25	75
33N	33	$\pm 5\%$	500	13	500	2.5	4.50	75

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