

Product Specification

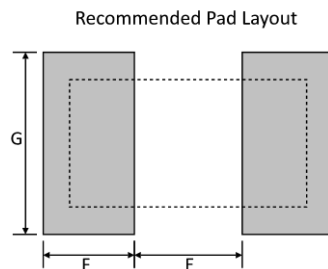
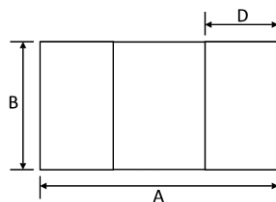
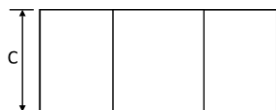


This product is certified to comply with the RoHS Directive 2002/95/EC.

LC2012xx Multilayer Ceramic Chip Inductor



- Industry standard 0805 size
- High SRF
- Good Q
- Wide inductance range
- Tight tolerance



Size	A	B	C	D	E	F	G
0805	2.20	1.45	0.09 (values <120nH) 1.20 (values >120nH)	0.50	1.00	1.00	1.55

Measurements in mm

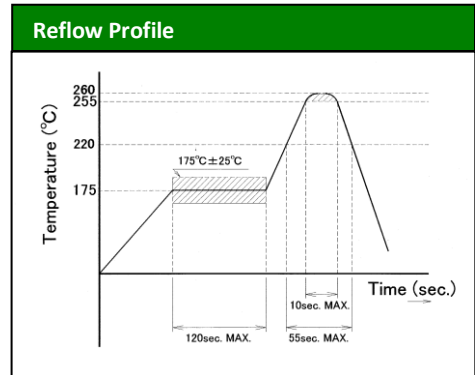
Specification	
Inductance range	1.5 ~ 470nH
SRF	to 6GHz
Q	to 56MHz @ 800MHz
Temp. range	-55 to +125°C
DCR	from 0.10Ω
Current	to 300mA
Storage temp.	-55 to +125°C

'*' 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	Height	Tolerance	Value	RoHS
LC2012	09 = 0.09mm	K = ±10%	1N0 = 1nH	*
	12 = 1.20mm	J = ±5%	10N = 10nH	
		S = ±0.3nH	R10 = 100nH	



Issue 3 28/07/10

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MAGNA Frequency Components

LC2012xx Multilayer Ceramic Chip Inductor

Value Code	Inductance (nH)	Tolerance	Test Freq. (MHz)	Q Typical		SRF Min. (GHz)	RDC Max. (Ω)	IDC Max. (mA)
				100MHz	800MHz			
1N5	1.5	±0.3nH	100	13	40	6000	0.10	300
1N8	1.8	±0.3nH	100	13	45	6000	0.10	300
2N2	2.2	±0.3nH	100	13	48	6000	0.10	300
2N7	2.7	±0.3nH	100	12	36	6000	0.10	300
3N3	3.3	±0.3nH, ±10%	100	13	56	6000	0.13	300
3N9	3.9	±0.3nH, ±10%	100	15	54	5400	0.15	300
4N7	4.7	±0.3nH, ±10%	100	15	50	4500	0.20	300
5N6	5.6	±0.3nH, ±10%	100	15	53	4000	0.23	300
6N8	6.8	±5%, ±10%	100	15	51	3650	0.25	300
8N2	8.2	±5%, ±10%	100	15	53	3000	0.28	300
10N	10	±5%, ±10%	100	16	45	2500	0.30	300
12N	12	±5%, ±10%	100	16	48	2450	0.35	300
15N	15	±5%, ±10%	100	17	48	2000	0.40	300
18N	18	±5%, ±10%	100	17	43	1750	0.45	300
22N	22	±5%, ±10%	100	17	47	1700	0.50	300
27N	27	±5%, ±10%	100	18	38	1550	0.55	300
33N	33	±5%, ±10%	100	18	35	1350	0.60	300
39N	39	±5%, ±10%	100	18	40	1300	0.65	300
47N	47	±5%, ±10%	100	18	33	1200	0.70	300
56N	56	±5%, ±10%	100	19	31	1150	0.75	300
68N	68	±5%, ±10%	100	19	28	1000	0.85	300
82N	82	±5%, ±10%	100	20	9	850	0.90	300
R10	100	±5%, ±10%	100	18	-	730	1.00	300
R12	120	±5%, ±10%	100	19	-	650	1.30	250
R15	150	±5%, ±10%	100	20	-	550	1.50	250
R18	180	±5%, ±10%	100	20	-	500	1.80	250
R22	220	±5%, ±10%	100	20	-	450	2.00	200
R27	270	±5%, ±10%	100	20	-	400	2.50	200
R33	330	±5%, ±10%	100	20	-	380	3.00	150
R39	390	±5%, ±10%	100	20	-	330	3.50	150
R47	470	±5%, ±10%	100	19	-	300	4.00	100