

# Product Specification

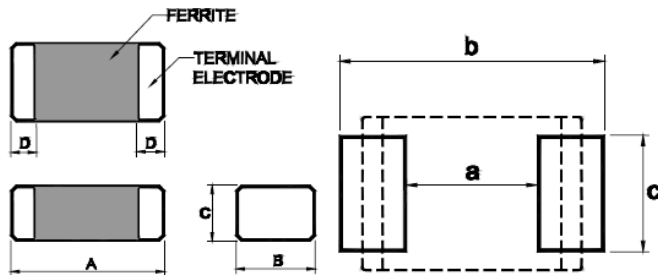


This product is certified to comply with the RoHS Directive 2002/95/EC.

## LF2012xx Multilayer Ferrite Chip Inductor



- Industry standard 0805 size
- High SRF
- Ferrite
- High Inductance
- Tight tolerance



### Specification

<b>Inductance range</b>	0.047 ~ 22μH
<b>Temp. range</b>	-25 to +85°C

'\*' suffix denotes RoHS Compliant

Standard packing:  
 LF201209 - 4k per 7" reel (T/R)  
 LF201212 - 2k per 7" reel (T/R)

Sample kits and designer kits are available

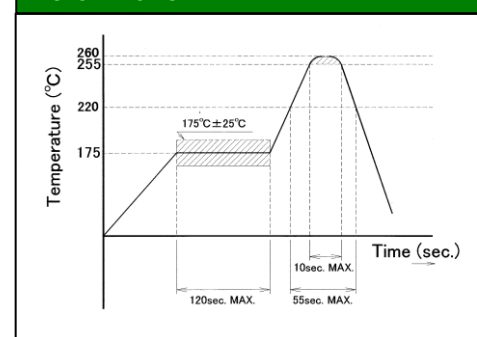
Type	Size	A	B	C	D	a	b	c
LF201209 ( $\leq 2.2\mu\text{H}$ )	0805	2.00±0.20	1.25±0.20	0.90±0.20	0.50±0.20	1.2	3.0~4.0	1.0
LF201212 ( $\geq 2.7\mu\text{H}$ )	0805	2.00±0.20	1.25±0.20	1.25±0.20	0.50±0.20	1.2	3.0~4.0	1.0

Measurements in mm

### Ordering Code Guide

Series Code	Tolerance	Value	RoHS
LF201209	M = ±20%	10N = 10nH	*
LF201212	K = ±10%	R10 = 100nH	
		1R0 = 1μH	
		100 = 10μH	

### Reflow Profile



Issue 3 06/01/11

Magna Frequency Components, Magna House, Dales Manor Business Park, Sawston, Cambridge, CB22 3TJ  
 Tel: +44 1223 834800 Fax: +44 1223 834600 Email: sales@magnafrequency.com

# Product Specification



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



**MAGNA** Frequency Components

## LF2012xx Multilayer Ferrite Chip Inductor

Value Code	Inductance (nH)	Tolerance	Test Freq. (MHz)	Q Min.	SRF Min. (GHz)	RDC Max. (Ω)	IDC Max. (mA)
47N	47	±20%	50MHz, 200mV	20	320	0.20	300
56N	56	±20%	50MHz, 200mV	20	320	0.20	300
68N	68	±20%	50MHz, 200mV	20	280	0.20	300
82N	82	±20%	50MHz, 200mV	20	255	0.20	300
R10	100	±10%, ±20%	25MHz, 200mV	20	235	0.30	250
R12	120	±10%, ±20%	25MHz, 200mV	20	220	0.30	250
R15	150	±10%, ±20%	25MHz, 200mV	20	200	0.40	250
R18	180	±10%, ±20%	25MHz, 200mV	20	185	0.40	250
R22	220	±10%, ±20%	25MHz, 200mV	20	170	0.50	250
R27	270	±10%, ±20%	25MHz, 200mV	20	150	0.50	250
R33	330	±10%, ±20%	25MHz, 200mV	20	145	0.55	250
R39	390	±10%, ±20%	25MHz, 200mV	25	135	0.65	200
R47	470	±10%, ±20%	25MHz, 200mV	25	125	0.65	200
R56	560	±10%, ±20%	25MHz, 200mV	25	115	0.75	150
R68	680	±10%, ±20%	25MHz, 200mV	25	105	0.80	150
R82	820	±10%, ±20%	25MHz, 200mV	25	100	1.00	150
1R0	1000	±10%, ±20%	10MHz, 200mV	45	75	0.40	50
1R2	1200	±10%, ±20%	10MHz, 200mV	45	65	0.50	50
1R5	1500	±10%, ±20%	10MHz, 200mV	45	60	0.50	50
1R8	1800	±10%, ±20%	10MHz, 200mV	45	55	0.60	50
2R2	2200	±10%, ±20%	10MHz, 200mV	45	50	0.65	30
2R7	2700	±10%, ±20%	10MHz, 200mV	45	45	0.75	30
3R3	3300	±10%, ±20%	10MHz, 200mV	45	41	0.80	30
3R9	3900	±10%, ±20%	10MHz, 200mV	45	38	0.90	30
4R7	4700	±10%, ±20%	10MHz, 200mV	45	35	1.00	30
5R6	5600	±10%, ±20%	4MHz, 200mV	45	32	0.90	15
6R8	6800	±10%, ±20%	4MHz, 200mV	45	29	1.00	15
8R2	8200	±10%, ±20%	4MHz, 200mV	45	26	1.10	15
100	10000	±10%, ±20%	2MHz, 60mV	45	24	1.15	15
120	12000	±10%, ±20%	2MHz, 60mV	45	22	1.25	15
150	15000	±10%, ±20%	1MHz, 60mV	30	19	0.80	5
180	18000	±10%, ±20%	1MHz, 60mV	30	18	0.90	5
220	22000	±10%, ±20%	1MHz, 60mV	30	16	1.10	5

Issue 3 06/01/11

Magna Frequency Components, Magna House, Dales Manor Business Park, Sawston, Cambridge, CB22 3TJ

Tel: +44 1223 834800

Fax: +44 1223 834600

Email: sales@magnafrequency.com