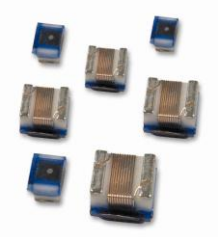
Product Specification

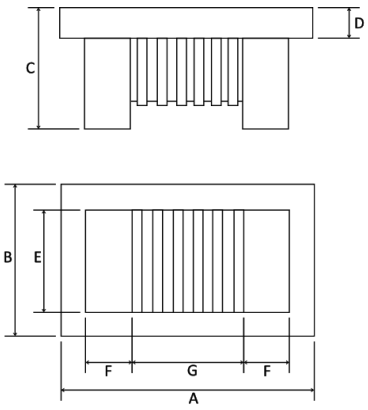
This product is certified to comply with the RoHS Directive 2002/95/EC.

MAGNA Frequency Components

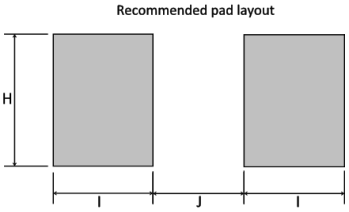
WC0805Q High Q Wirewound Ceramic Chip Inductor



- Industry standard 0805 size
- Small size
- High SRF
- High Q
- Large current
- Tight tolerance



Recommended pad layout



Size	A	B	C	D	E	F	G	H	I	J
0805	2.29	1.73	1.52	0.51	1.27	0.44	1.02	1.78	1.02	0.76

Measurements in mm

Specification	
Inductance range	1.8 ~ 51nH
SRF	to 6.0GHz
Q	to 98
Temp. range	-40 to +125°C
DCR	From 0.02Ω
Current	to 1600mA
Storage temp.	-40 to +125°C

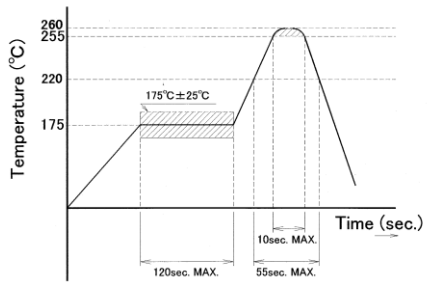
'*' suffix denotes RoHS Compliant

Standard packing: 2k per 7" reel (T/R)
Smaller quantities: Bulk

Sample kits and designer kits are available

Ordering Code Guide			
Series Code	**Tolerance**	**Value**	**RoHS**
WC0805Q	G = ±2%	1N0 = 1nH	*
	J = ±5%	10N = 10nH	
	K = ±10%	R10 = 100nH	
		1R0 = 1uH	

Reflow Profile



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WC0805Q High Q Wirewound Ceramic Chip Inductor

Value Code	Inductance (nH)	Tolerance	L Test Frequency (MHz)	Q Min.	Q Test Frequency (MHz)	SRF Min. (MHz)	RDC Max. (Ω)	IDC Max. (mA)
2N5	2.5	±10%, ±5%	250	80	1500	6000	0.020	1600
5N6	5.6	±10%, ±5%	250	98	1500	6000	0.035	1600
6N2	6.2	±10%, ±5%	250	88	1000	4750	0.035	1600
12N	12	±10%, ±5%	250	80	1000	3000	0.045	1600
16N	16	±10%, ±5%, ±2%	250	72	500	2950	0.060	1500
18N	18	±10%, ±5%, ±2%	250	75	500	2550	0.060	1400
20N	20	±10%, ±5%, ±2%	250	70	500	2050	0.055	1400
27N	27	±10%, ±5%, ±2%	250	75	500	2000	0.070	1300
30N	30	±10%, ±5%, ±2%	250	65	500	1950	0.095	1200
39N	39	±10%, ±5%, ±2%	250	65	500	1600	0.110	1100
48N	48	±10%, ±5%, ±2%	250	65	500	1400	0.095	1200
51N	51	±10%, ±5%, ±2%	250	65	500	1400	0.120	1000

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