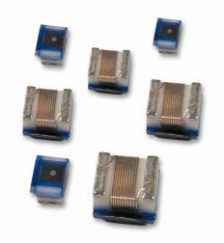
Product Specification

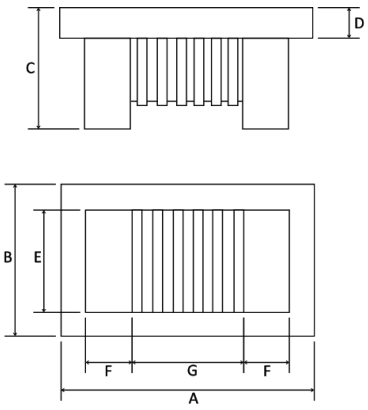
This product is certified to comply with the RoHS Directive 2002/95/EC.

MAGNA Frequency Components

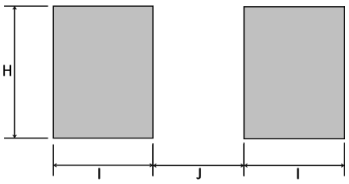
WC1008Q High Q Wirewound Ceramic Chip Inductor



- Industry standard 1008 size
- Small size
- High SRF
- High Q
- High current
- Tight tolerance



Recommended pad layout



Size	A	B	C	D	E	F	G	H	I	J
1008	2.92	2.79	2.03	0.65	2.03	0.51	1.52	2.54	1.02	1.27

Measurements in mm

Specification	
Inductance range	3.0 ~ 100nH
SRF	to 6GHz
Q	to 80
Temp. range	-40 to +125°C
DCR	From 0.04Ω
Current	to 1600mA
Storage temp.	-40 to +125°C

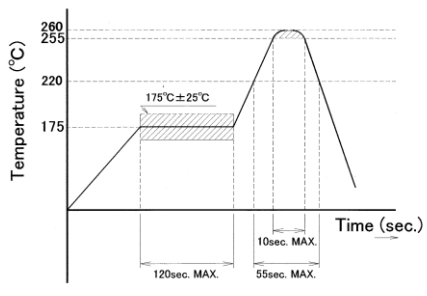
'*' suffix denotes RoHS Compliant

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**
WC1008Q	G = ±2%	1N0 = 1nH	*
	J = ±5%	10N = 10nH	
	K = ±10%	R10 = 100nH	
		1R0 = 1uH	

Reflow Profile



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Value Code	Inductance (nH)	Tolerance	L Test Frequency (MHz)	Q Min.	Q Test Frequency (MHz)	SRF Min. (MHz)	RDC Max. (Ω)	IDC Max. (mA)
3N0	3.0	±10%,±5%	50	70	1500	6000	0.04	1600
3N9	3.9	±10%,±5%	50	75	1500	6000	0.05	1600
4N1	4.1	±10%,±5%	50	75	1500	6000	0.05	1600
7N8	7.8	±10%,±5%	50	75	500	3800	0.05	1600
10N	10	±10%,±5%, ±2%	50	60	500	3600	0.06	1600
12N	12	±10%,±5%, ±2%	50	70	500	2800	0.06	1500
18N	18	±10%,+5%	50	62	350	2700	0.07	1400
22N	22	±10%,±5%, ±2%	50	62	350	2050	0.07	1400
33N	33	±10%,±5%, ±2%	50	75	350	1700	0.09	1300
39N	39	±10%,±5%, ±2%	50	75	350	1300	0.09	1300
47N	47	±10%,±5%, ±2%	50	75	350	1450	0.12	1200
56N	56	±10%,±5%, ±2%	50	75	350	1230	0.12	1200
68N	68	±10%,±5%, ±2%	50	80	350	1150	0.13	1100
82N	82	±10%,±5%, ±2%	50	80	350	1060	0.16	1100
R10	100	±10%,±5%, ±2%	50	62	350	820	0.16	1000

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