1008 Ceramic Core Inductors

At Knowles, we offer ceramic core inductors designed for applications that demand high-performance, High-Q inductors. These inductors provide RF efficiency and reliable performance in industries where precision and efficiency are essential, making them ideal for designs in the medical and defense markets.

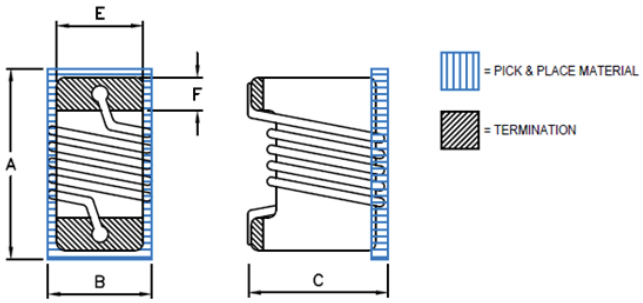
KNOWLES COMPETITIVE ADVANTAGE

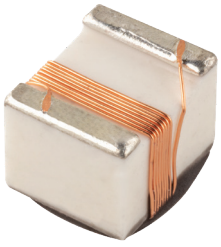
- Q meeting or exceeding industry leader's inductors
- Knowles ceramic core and powder knowledge and expertise
- Competitive Pricing
- Flexibility in design and testing
- Copper Barrier Plating available for non-magnetic applications

APPLICATIONS

- RF Transceivers
- MRI Applications
- Military Radio Systems
- Antenna
- Radar Systems
- RF Testing and Measurements

DIMENSIONS

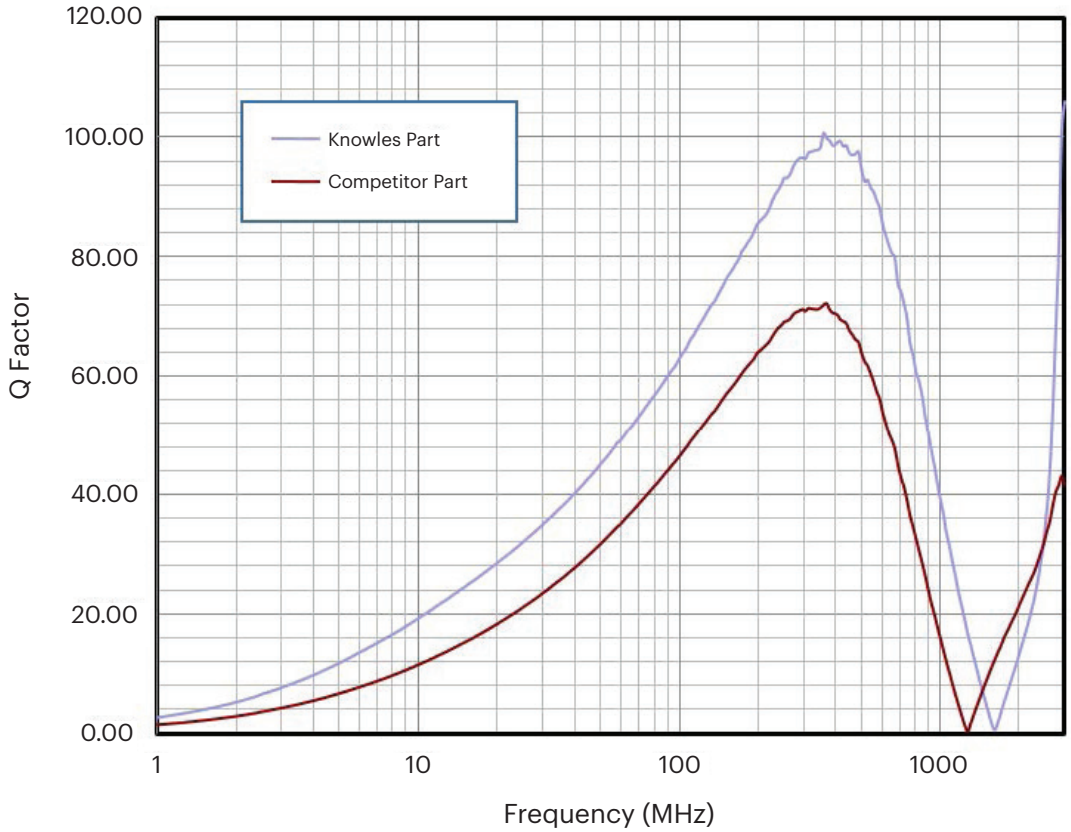




	A max	B max	C max	E	F
mm	2.80	2.60	2.30	2.03	0.51
in.	0.115	0.110	0.080	0.080	0.020

Q VS FREQUENCY GRAPH

(For Reference and Does Not Constitute as a Specification)



SPECIFICATIONS

Part Number	Inductance (nH)	Inductance Tolerance	Q Min	DC Resistance (Ohm) Max	Current Rating (mA) at 85°C
CL1008-2123JQL1T-1	12 @ 50 MHz	5%	50 @ 500 MHz	0.09	1000
CL1008-2823JQL1T-1	82 @ 50 MHz	5%	60 @ 350 MHz	0.22	1000
CL1008-2104JQL1T-1	100 @ 50 MHz	5%	60 @ 350 MHz	0.18	1000
CL1008-2124JQL1T-1	120 @ 50 MHz	5%	60 @ 350 MHz	0.63	950
CL1008-2224JQL1T-1	220 @ 50 MHz	5%	45 @ 100 MHz	0.84	700
CL1008-2474JQL1T-1	470 @ 50 MHz	5%	45 @ 100 MHz	1.17	470
CL1008-2105JQL1T-1	1000 @ 25 MHz	5%	35 @ 50 MHz	1.75	370
CL1008-2475JQL1T-1	4700 @ 7.9 MHz	5%	20 @ 25 MHz	4.00	260
CL1008-2106JQL1T-1	10000 @ 2.5 MHz	5%	20 @ 7.9 MHz	12.00	140

Offering all inductances 12nH - 10uH. Please reach out to Knowles Representatives for more details.

PART NUMBER BREAKDOWN