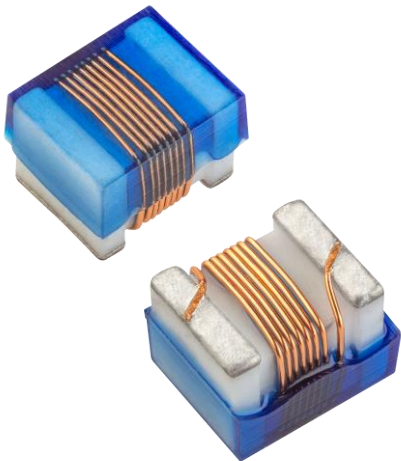


A Series
1008 Case Size



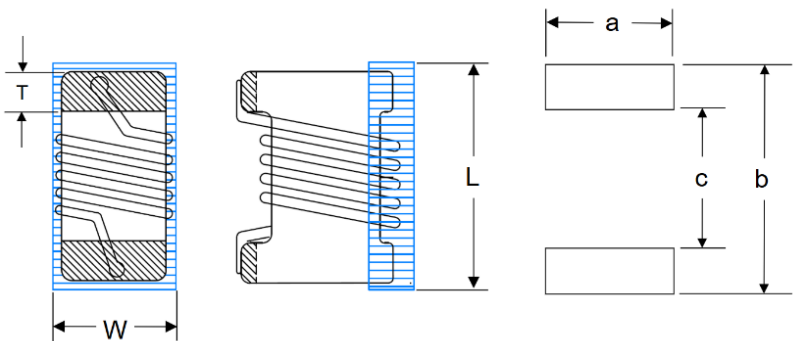
A Series Ceramic Core Inductors

These inductors provide reliable performance and consistent inductance across a broad frequency range, making them well suited for cost-sensitive and high-volume applications. Knowles designs focus on delivering competitive Q performance that meets industry standards while maintaining strong value and manufacturability.



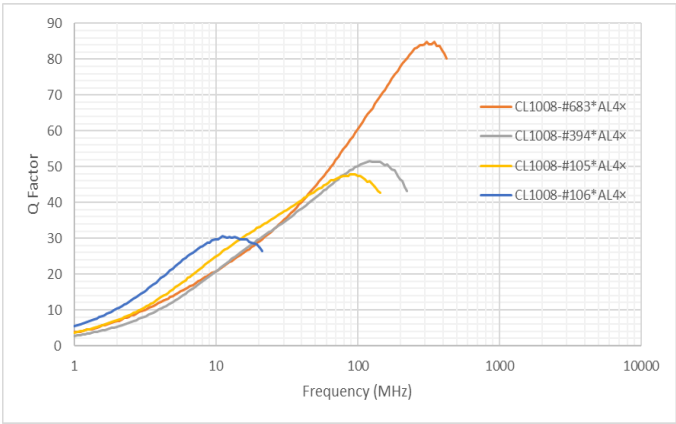
Electrical Details	
Inductance Range	10nH to 10uH
Core Material	Ceramic
Termination: (J)	matte tin over nickel over silver
Termination: (2)*	matte tin over copper over silver
Operating Temp. Range	-55°c to +125°c
Environmental	RoHS Compliant, halogen Free

* Not currently available, contact sales for release schedule timeline.

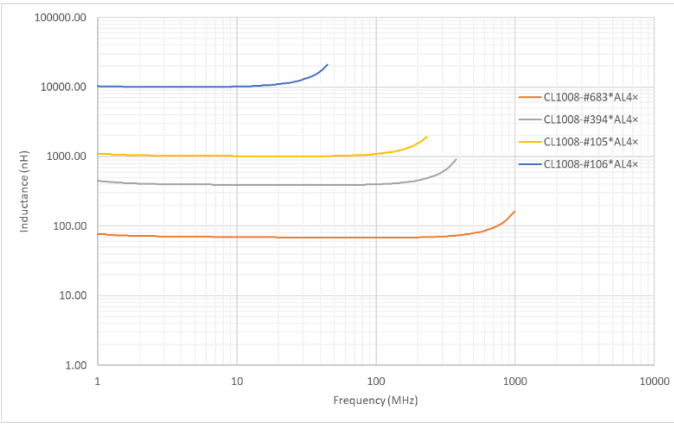


Reel Dia.			QTY	Dimension			L	H	W	T	a	b	c
T	178mm	2000	mm	2.6	1.80	2.15	0.5	2.20	3.0	1.20			
	7"		Inch	0.102	0.071	0.085	0.020	0.087	0.118	0.047			
R	330mm	7000	Tolerance	±0.2	±0.20	±0.2	±0.1	Recommended					
	13"			±0.008	±0.008	±0.008	±0.004						

Q vs Frequency



L vs Frequency



Specifications

Part Number	Inductance	Tolerance	Q min	SRF Min (MHz)	DCR (Ohm) Max	Current rating 15°C (mA)
CL1008-#103*AL4×	10nH	* J (±5%), G (±2%)	50 (1000MHz)	4300	0.080	1000
CL1008-#223*AL4×	22nH	* J (±5%), G (±2%)	60 (350MHz)	2500	0.100	1000
CL1008-#393*AL4×	39nH	* J (±5%), G (±2%)	60 (350MHz)	1500	0.100	1000
CL1008-#473*AL4×	47nH	* J (±5%), G (±2%)	60 (350MHz)	1500	0.100	1000
CL1008-#563*AL4×	56nH	* J (±5%), G (±2%)	60 (350MHz)	1350	0.120	1000
CL1008-#683*AL4×	68nH	* J (±5%), G (±2%)	60 (350MHz)	1300	0.150	1000
CL1008-#823*AL4×	82nH	* J (±5%), G (±2%)	60 (350MHz)	1100	0.180	1000
CL1008-#104*AL4×	100nH	* J (±5%), G (±2%)	60 (350MHz)	1100	0.180	1000
CL1008-#124*AL4×	120nH	* J (±5%), G (±2%)	45 (100MHz)	950	0.200	800
CL1008-#184*AL4×	180nH	* J (±5%), G (±2%)	45 (100MHz)	800	0.330	800
CL1008-#274*AL4×	270nH	* J (±5%), G (±2%)	45 (100MHz)	650	0.750	600
CL1008-#334*AL4×	330nH	* J (±5%), G (±2%)	45 (100MHz)	570	0.900	500
CL1008-#394*AL4×	390nH	* J (±5%), G (±2%)	45 (100MHz)	530	1.060	470
CL1008-#474*AL4×	470nH	* J (±5%), G (±2%)	45 (100MHz)	480	1.17	420
CL1008-#564*AL4×	560nH	* J (±5%), G (±2%)	45 (100MHz)	430	1.5	310
CL1008-#624*AL4×	620nH	* J (±5%), G (±2%)	40 (100MHz)	375	1.1	280
CL1008-#684*AL4×	680nH	* J (±5%), G (±2%)	45 (100MHz)	380	2.06	230
CL1008-#824*AL4×	820nH	* J (±5%), G (±2%)	45 (100MHz)	350	2.3	180
CL1008-#914*AL4×	910nH	* J (±5%), G (±2%)	45 (100MHz)	330	3.18	150
CL1008-#105*AL4×	1000nH	* J (±5%), G (±2%)	35 (50MHz)	310	3.3	120

Selected values from range, please contact sales for full list of inductance values.

Ordering information - For Example: CL1008-103JAL4T

CL1008	#	103	*	AL	4	x
Case Size	Termination	Inductance	Tolerance	Series	Version	Packaging
CL1008	-J Nickel barrier	See Chart	G: ±2% J: ±5%	AL - A Series		T 178mm / 7" R 330mm / 13"

Performance

Key Test	Test Condition (per AEC-Q200)	Min Specification
Temperature Cycling	-55°C to +125°C	1000 cycles
High Temperature Operating Life	+125°C, (powered)	1000 hr
Humidity Bias	85°C & 85%RH, (unpowered)	1000 hr, (<5% change in inductance)
High Temperature Storage	+125°C	1000 hr
Push Test	Termination Stress Test	1 kg for 60 sec, no damage
Substrate Bend Test	2mm deflection of pcb	No damage