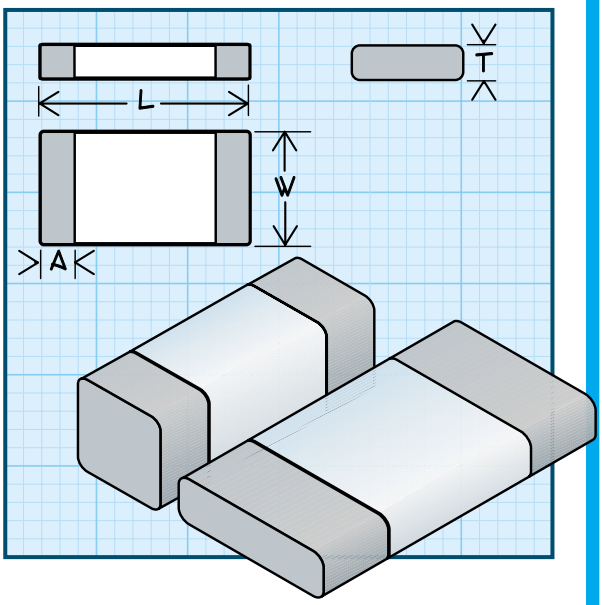
Series C1608R & C2012R C1608 & C2012

RoHS Compliant

Traditional First Quality

Multilayer Ceramic Chip Inductors



Series C1608 Physical Parameters

	Inches	Millimeters
L	0.063 ± 0.006	1.60 ± 0.15
W	0.031 ± 0.006	0.80 ± 0.15
A	0.012 ± 0.008	0.30 ± 0.20
T	0.031 ± 0.006	0.80 ± 0.15

Series C2012 Physical Parameters

	Inches	Millimeters
L	0.079 ± 0.008	2.0 ± 0.2
W	0.049 ± 0.008	1.25 ± 0.2
A	0.020 ± 0.012	0.51 ± 0.30
T	0.039 ± 0.008	1.00 ± 0.20

Electrical Characteristics Measured @ 25°C

Operating Temperature Range –55°C to +125°C

Inductance Tolerance
Tolerance is as shown in table, except where ** denotes choice of: J = ±5% or K = ±10%

Current Rating The milliamp rating which changes the inductance by 5% maximum

Packaging Tape & reel (8mm):
C1608 – 7" reel, 4000 pieces max.; 13" reel not avail.
C2012 – 7" reel, 3000 pieces max.

†**Inductance and Q test frequency**:
Inductance values 100nH and less are tested at 100MHz. Above 100nH are tested at 50 MHz.

***Complete part # must include series # PLUS the dash #**

For further surface finish information, refer to TECHNICAL section of this catalog.

DASH NUMBER*	INDUCTANCE (nH) † @ 100 MHz	TOLERANCE	Q MIN. @ 100 MHz†	SRF MINIMUM (MHz)	DC RESISTANCE MAXIMUM (OHMS)	CURRENT RATING MAX. (mA)
SERIES C1608						
-10NS	1.0	±0.3nH	8	4000	0.100	300
-12NS	1.2	±0.3nH	8	4000	0.100	300
-15NS	1.5	±0.3nH	8	4000	0.100	300
-18NS	1.8	±0.3nH	8	3800	0.120	300
-22NS	2.2	±0.3nH	8	3600	0.160	300
-27NS	2.7	±0.3nH	8	3400	0.200	300
-33NS	3.3	±0.3nH	10	3200	0.220	300
-39NS	3.9	±0.3nH	10	3000	0.250	300
-47NS	4.7	±0.3nH	10	2800	0.280	300
-56NS	5.6	±0.3nH	10	2700	0.290	300
-68N**	6.8	**	10	2600	0.300	300
-82N**	8.2	**	10	2200	0.330	300
-100**	10	**	10	1800	0.350	300
-120**	12	**	10	1650	0.400	300
-150**	15	**	10	1350	0.450	300
-180**	18	**	10	1350	0.500	300
-220**	22	**	10	1100	0.550	300
-270**	27	**	10	1100	0.600	300
-330**	33	**	10	1000	0.650	300
-390**	39	**	10	900	0.700	300
-470**	47	**	10	800	0.900	300
-560**	56	**	10	750	1.000	300
-680**	68	**	10	700	1.200	300
-820**	82	**	10	600	1.500	300
-101**	100	**	10	600	1.700	300
-121**	120	**	8	500	2.000	250
-151**	150	**	8	500	2.400	200
-181**	180	**	8	400	2.700	200
-221**	220	**	8	350	2.800	200
-271**	270	**	8	300	3.100	200
SERIES C2012						
-10NS	1.0	±0.3nH	10	4000	0.100	300
-12NS	1.2	±0.3nH	10	4000	0.100	300
-15NS	1.5	±0.3nH	10	4000	0.100	300
-18NS	1.8	±0.3nH	10	4000	0.100	300
-22NS	2.2	±0.3nH	10	3800	0.100	300
-27NS	2.7	±0.3nH	10	3600	0.100	300
-33NS	3.3	±0.3nH	10	3400	0.130	300
-39NS	3.9	±0.3nH	10	3200	0.150	300
-47NS	4.7	±0.3nH	10	3000	0.200	300
-56NS	5.6	±0.3nH	10	2800	0.230	300
-68N**	6.8	**	10	2600	0.250	300
-82N**	8.2	**	10	2200	0.280	300
-100**	10	**	10	1800	0.300	300
-120**	12	**	15	1650	0.350	300
-150**	15	**	15	1350	0.400	300
-180**	18	**	15	1350	0.450	300
-220**	22	**	15	1100	0.500	300
-270**	27	**	15	1100	0.550	300
-330**	33	**	15	900	0.600	300
-390**	39	**	15	900	0.650	300
-470**	47	**	15	850	0.700	300
-560**	56	**	15	750	0.750	300
-680**	68	**	15	700	0.800	300
-820**	82	**	15	600	0.900	300
-101**	100	**	15	500	1.000	300
-121**	120	**	10	450	1.300	250
-151**	150	**	10	400	1.500	250
-181**	180	**	10	350	1.800	250
-221**	220	**	10	330	2.000	250
-271**	270	**	10	300	2.500	250
-331**	330	**		270	3.000	250
-391**	390			220	3.500	250
-471**	470			180	4.000	250

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