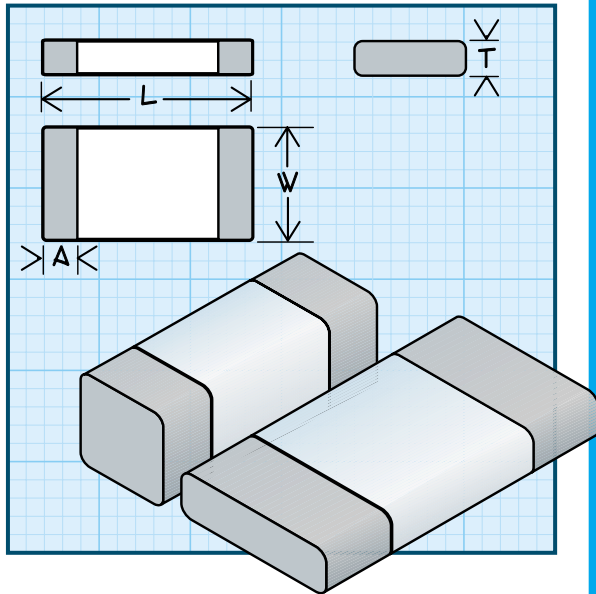


Series C1608R & C2012R C1608 & C2012

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	0.020 Max.	0.50 Max
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	0.024 Max	0.60 Max
T	0.039 ± 0.008	1.00 ± 0.20

Electrical Characteristics Measured @ 25°C

Operating Temperature Range -40°C to +85°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.;

10" reel, max. 7000 pieces.

Quantities less than full reels are on "cut tape".

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	6000	0.100	300
-12NS	1.2	±0.3nH	8	6000	0.100	300
-15NS	1.5	±0.3nH	8	6000	0.100	300
-18NS	1.8	±0.3nH	8	6000	0.120	300
-22NK	2.2	±10%	8	6000	0.160	300
-27NK	2.7	±10%	8	6000	0.200	300
-33NK	3.3	±10%	8	5700	0.220	300
-39NK	3.9	±10%	8	5600	0.250	300
-47NK	4.7	±10%	8	4800	0.280	300
-56NK	5.6	±10%	8	4350	0.290	300
-68NK	6.8	±10%	8	3750	0.300	300
-82NK	8.2	±10%	8	3300	0.330	300
-100**	10	**	8	2850	0.350	300
-120**	12	**	8	2700	0.400	300
-150**	15	**	8	2400	0.450	300
-180**	18	**	8	2050	0.500	300
-220**	22	**	8	1850	0.550	300
-270**	27	**	8	1750	0.600	300
-330**	33	**	8	1500	0.650	300
-390**	39	**	8	1350	0.700	300
-470**	47	**	8	1200	0.900	300
-560**	56	**	8	1100	1.000	300
-680**	68	**	8	1000	1.500	300
-820**	82	**	8	900	2.000	300
-101**	100	**	8	830	2.500	300
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	±10%	10	4000	0.100	300
-22NK	2.2	±10%	10	3800	0.100	300
-27NK	2.7	±10%	10	3600	0.100	300
-33NK	3.3	±10%	10	3400	0.130	300
-39NK	3.9	±10%	10	3200	0.150	300
-47NK	4.7	±10%	10	3000	0.200	300
-56NK	5.6	±10%	10	2800	0.230	300
-68NK	6.8	±10%	10	2600	0.250	300
-82NK	8.2	**	10	2200	0.280	300
-100**	10	**	10	1800	0.300	300
-120**	12	**	10	1650	0.350	300
-150**	15	**	10	1350	0.400	300
-180**	18	**	10	1350	0.450	300
-220**	22	**	15	1100	0.500	300
-270**	27	**	15	1100	0.550	300
-330**	33	**	15	1000	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	**	15	450	1.300	250
-151**	150	**	15	400	1.500	250
-181**	180	**	15	350	1.800	250
-221**	220	**	10	330	2.000	200
-271**	270	**	10	300	2.500	200
-331**	330	**	10	270	3.000	150
-391**	390	**	10	220	3.500	150
-471**	470	**	10	180	4.000	100

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

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

RF INDUCTORS