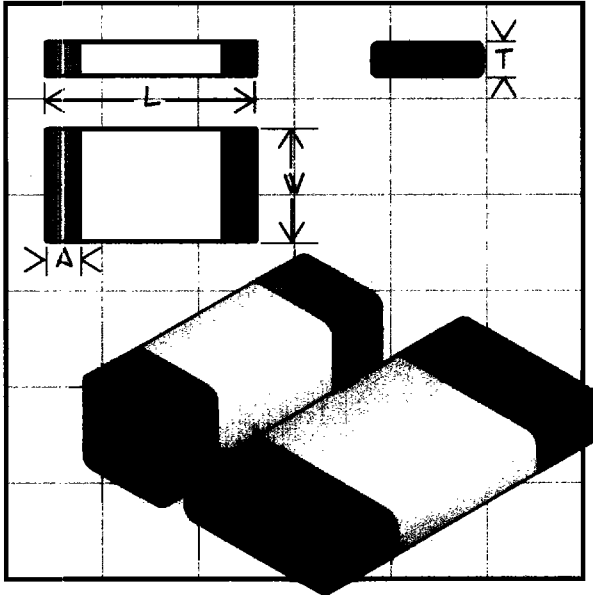


# Series 1608 & 2012

## Multilayer Ceramic Chip Inductors



### Series 1608 Physical Parameters

	Inches	Millimeters
L	.063 ± .005	1.6 ± 0.15
W	.03 ± .005	0.8 ± 0.15
A	.01 ± .008	0.3 ± 0.2
T	.03 ± .008	0.8 ± 0.2

### Electrical Characteristics (Initial) @ 25°C

Operating Temperature Range -40°C to +100°C

\*Add tolerance to part number

J=5%, K=10%, M=20%

### Series 2012 Physical Parameters

	Inches	Millimeters
L	.079 ± .008	2.0 ± 0.2
W	.049 ± .008	1.25 ± 0.2
A	.02 ± .012	0.5 ± 0.3
T	.023 ± .008†	0.6 ± 0.2†
T	.033 ± .012†	0.85 ± 0.3†
T	.039 ± .012†	1.00 ± 0.3†
T	.043 ± .012†	1.10 ± 0.3†

† See "Height" column at right.

### Electrical Characteristics (Initial) @ 25°C

PART NUMBER  
INDUCTANCE (nH) @ 100 MHz  
\* TOLERANCE  
Q TYPICAL (MHz) @ 100 MHz  
Q TYPICAL (MHz) @ 800 MHz  
SELF-RESONANT FREQUENCY TYPICAL (MHz)  
DC RESISTANCE MAXIMUM (OHMS)  
CURRENT RATING MAXIMUM (mA)  
HEIGHT (mm) †

SERIES 1608								
1608-012	1.2	0.3nH	10	40	>6000	0.10	300	0.8
1608-015	1.5	0.3nH	10	38	>6000	0.10	300	0.8
1608-018	1.8	0.3nH	10	38	>6000	0.12	300	0.8
1608-022	2.2	0.3nH	10	34	>6000	0.16	300	0.8
1608-027	2.7	0.3nH	10	32	>6000	0.20	300	0.8
1608-033*	3.3	K,M	10	30	5500	0.22	300	0.8
1608-039*	3.9	K,M	10	32	5700	0.25	300	0.8
1608-047*	4.7	K,M	10	32	4800	0.28	300	0.8
1608-056*	5.6	K,M	10	32	4600	0.29	300	0.8
1608-068*	6.8	J,K,M	11	32	3550	0.30	300	0.8
1608-082*	8.2	J,K,M	11	28	3500	0.33	300	0.8
1608-100*	10	J,K,M	11	32	2750	0.35	300	0.8
1608-120*	12	J,K,M	11	30	2750	0.40	300	0.8
1608-150*	15	J,K,M	11	26	2300	0.45	300	0.8
1608-180*	18	J,K,M	11	25	2300	0.50	300	0.8
1608-220*	22	J,K,M	14	30	2000	0.55	300	0.8
1608-270*	27	J,K,M	14	26	1750	0.60	300	0.8
1608-330*	33	J,K,M	14	24	1500	0.65	300	0.8
1608-390*	39	J,K,M	14	20	1300	0.70	300	0.8
1608-470*	47	J,K,M	14	20	1200	0.90	300	0.8
1608-560*	56	J,K,M	15	18	1100	1.00	300	0.8
1608-680*	68	J,K,M	16	14	1000	1.50	300	0.8
1608-820*	82	J,K,M	15	18	900	2.00	300	0.8
1608-101*	100	J,K,M	15	3	830	2.50	300	0.8

SERIES 2012 @ 600 MHz								
2012-015	1.5	0.3nH	13	42	>6000	0.10	300	0.60
2012-018	1.8	0.3nH	13	42	6000	0.10	300	0.60
2012-022	2.2	0.3nH	13	44	6000	0.10	300	0.60
2012-027	2.7	0.3nH	12	32	6000	0.10	300	0.60
2012-033*	3.3	K,M	13	36	6000	0.10	300	0.60
2012-039*	3.9	K,M	15	46	5400	0.15	300	0.60
2012-047*	4.7	K,M	15	45	4500	0.20	300	0.60
2012-056*	5.6	K,M	15	47	4000	0.23	300	0.60
2012-068*	6.8	J,K,M	15	44	3650	0.25	300	0.60
2012-082*	8.2	J,K,M	15	46	3000	0.28	300	0.60
2012-100*	10	J,K,M	16	40	2500	0.30	300	0.85
2012-120*	12	J,K,M	16	40	2450	0.35	300	0.85
2012-150*	15	J,K,M	17	43	2000	0.40	300	0.85
2012-180*	18	J,K,M	17	42	1750	0.45	300	0.85
2012-220*	22	J,K,M	17	42	1700	0.50	300	0.85
2012-270*	27	J,K,M	18	38	1550	0.55	300	0.85
2012-330*	33	J,K,M	18	44	1350	0.60	300	0.85
2012-390*	39	J,K,M	18	39	1300	0.65	300	0.85
2012-470*	47	J,K,M	18	36	1200	0.70	300	1.00
2012-560*	56	J,K,M	19	36	1150	0.75	300	1.00
2012-680*	68	J,K,M	19	35	1000	0.80	300	1.00
2012-820*	82	J,K,M	20	25	850	0.90	300	1.00
2012-101*	100	J,K,M	18	-	730	1.00	300	1.00
2012-121*	120	K,M	19	-	650	1.30	250	1.10
2012-151*	150	K,M	20	-	550	1.50	250	1.10
2012-181*	180	K,M	20	-	500	1.80	250	1.10
2012-221*	220	K,M	20	-	450	2.00	200	1.10
2012-271*	270	K,M	20	-	400	2.50	200	1.10
2012-331*	330	K,M	20	-	380	3.00	150	1.10
2012-391*	390	K,M	20	-	330	3.50	150	1.10
2012-471*	470	K,M	19	-	300	4.00	100	1.10



**API Delevan**  
AMERICAN PRECISION INDUSTRIES INC.