

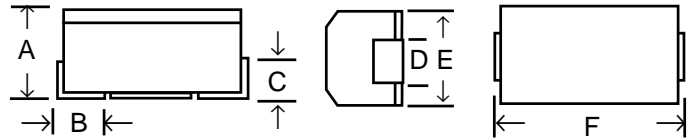
# MOLDED WIREWOUND CHIP INDUCTORS

## MCI SERIES



New! MCI1008

- Molded construction, excellent environmental performance
- 1210 and 1812 sizes available from stock
- Ferrite core, wirewound construction
- Intermediate values, increased current, Q, & SRF available



### TYPE MCI1008

Induc. (µH)	Standard Tolerance	Q (Min.)	Test Freq. (MHz)	SRF Min. (MHz)	Max. DCR (ohm)	Rated* DC Current (mA)
.12	±10%	30	25.2	600	.37	420
.15	±10%	30	25.2	550	.42	380
.22	±10%	30	25.2	450	.52	330
.33	±10%	30	25.2	400	.60	300
.47	±10%	30	25.2	350	.68	250
.68	±10%	30	25.2	270	.85	220
.82	±10%	30	25.2	250	1.0	200
1.0	±10%	30	7.96	220	1.1	195
1.5	±10%	30	7.96	135	1.3	190
2.2	±10%	30	7.96	75	1.55	180
3.3	±10%	30	7.96	48	1.9	170
4.7	±10%	30	7.96	40	2.3	165
6.8	±10%	25	7.96	33	2.7	160
8.2	±10%	25	7.96	30	3.1	155
10	±10%	25	2.52	27	3.5	150
15	±10%	25	2.52	20	4.4	140
22	±10%	25	2.52	17	5.5	125
33	±10%	25	2.52	15	7.1	110
47	±10%	20	2.52	13	11	80
68	±10%	20	2.52	11	16.6	70
82	±10%	20	2.52	10	19	65
100	±10%	15	.796	9	21	60

Dim.	MCI1008	MCI1210	MCI1812
A	.067 ±.012 [1.7 ±.3]	.087 ±.008 [2.21 ±.2]	.126 ±.008 [3.2 ±.2]
B	.016 ±.008 [.4 ±.2]	.027 ±.012 [.686 ±.3]	.027 ±.012 [.686 ±.3]
C	.016 [.4] Min.	.02 [.51] Min.	.02 [.51] Min.
D	.040 [1.0] Min.	.040 [1.0] Min.	.044 [1.1] Min.
E	.079 ±.008 [2.0 ±.2]	.098 ±.01 [2.49 ±.25]	.125 ±.01 [3.2 ±.25]
F	.100 ±.01 [2.54 ±.26]	.126 ±.01 [3.2 ±.25]	.177 ±.012 [4.5 ±.3]

### TYPE MCI1210

Induc. (µH)	Standard Tolerance	Q (Min.)	Test Freq. (MHz)	SRF Min. (MHz)	Max. DCR (ohm)	Rated* DC Current (mA)
.01	±20%	15	100	2500	.13	520
.015	±20%	19	100	2100	.16	500
.022	±20%	23	100	1700	.20	480
.033	±20%	25	100	1400	.24	470
.047	±20%	26	100	1200	.30	460
.068	±20%	27	100	1000	.36	450
.10	±20%	28	100	700	.44	450
.15	±20%	30	25.2	450	.25	450
.22	±20%	30	25.2	350	.32	450
.33	±20%	30	25.2	300	.40	450
.47	±20%	30	25.2	220	.50	450
.68	±20%	30	25.2	160	.60	450
1.0	±10%	30	7.96	120	.70	400
1.5	±10%	30	7.96	85	.85	370
2.2	±10%	30	7.96	75	1.0	320
3.3	±10%	30	7.96	60	1.2	260
4.7	±10%	30	7.96	50	1.5	220
6.8	±10%	30	7.96	40	1.8	180
10	±10%	30	2.52	30	2.1	150
15	±10%	30	2.52	20	2.8	130
22	±10%	30	2.52	20	3.7	110
33	±10%	30	2.52	17	5.6	70
47	±10%	30	2.52	15	7.0	60
68	±10%	30	2.52	12	9.0	50
100	±10%	20	.796	10	11	40
150	±10%	20	.796	8	15	65
220	±10%	20	.796	7	21	50
330	±10%	20	.796	5	34	40

### TYPE MCI1812

Induc. (µH)	Standard Tolerance	Q (Min.)	Test Freq. (MHz)	SRF Min. (MHz)	DC Resis. (Ω @20°C)	Rated* DC Current (mA)
0.10	20%	28	25.2	600	.28	540
0.12	20%	30	25.2	500	.22	520
0.15	20%	30	25.2	400	.25	500
0.18	20%	30	25.2	300	.28	490
0.22	20%	30	25.2	200	.30	480
0.27	20%	30	25.2	200	.32	460
0.33	20%	30	25.2	180	.34	450
0.39	20%	30	25.2	180	.38	450
0.47	20%	30	25.2	165	.42	450
0.56	20%	30	25.2	150	.46	450
0.68	20%	30	25.2	150	.51	450
0.82	20%	30	25.2	140	.55	450
1.0	10%	50	7.96	100	.50	450
1.2	10%	50	7.96	80	.55	430
1.5	10%	50	7.96	70	.60	410
1.8	10%	50	7.96	60	.65	390
2.2	10%	50	7.96	55	.70	380
2.7	10%	50	7.96	50	.75	370
3.3	10%	50	7.96	45	.80	355
3.9	10%	50	7.96	40	.90	330
4.7	10%	50	7.96	35	1.0	315
5.6	10%	50	7.96	33	1.1	300
6.8	10%	50	7.96	27	1.2	285
8.2	10%	50	7.96	25	1.4	270
10	10%	50	7.96	20	1.6	250
12	10%	50	2.52	18	2.0	225
15	10%	50	2.52	17	2.5	200
18	10%	50	2.52	15	2.8	190
22	10%	50	2.52	13	3.2	180
27	10%	50	2.52	12	3.6	170
33	10%	50	2.52	11	4.0	160
39	10%	50	2.52	11	4.5	150
47	10%	50	2.52	10	5.0	140
56	10%	50	2.52	9.0	5.5	135
68	10%	50	2.52	9.0	6.0	130
82	10%	50	2.52	8.0	7.0	120
100	10%	40	2.52	8.0	8.0	110
120	10%	40	.79	6.0	8.0	110
150	10%	40	.79	5.0	9.0	105
180	10%	40	.79	4.5	9.5	102
220	10%	40	.79	4.3	12	100
270	10%	40	.79	4.0	18	92
330	10%	40	.79	3.5	20	85
390	10%	40	.79	3.0	23	80
470	10%	30	.79	3.0	26	62
560	10%	30	.79	3.0	30	50
680	10%	30	.79	3.0	39	50
820	10%	30	.79	2.5	45	40
1000	10%	20	.79	2.5	50	30

### SPECIFICATIONS

Temperature Range	-40°C to +105°C
T.C. of Inductance	+50 to +150ppm/°C typ.
Resis. to Soldering Heat	260°C, 10 seconds
Resis. to Solvents	per MIL-STD-202, m215
DC Current	10% Max ΔL at full current

\* Current rating is based on 85°C max ambient, derate 5%/°C above 85°C

### P/N DESIGNATION:

**MCI1812** □ - **100** - **K** **T** **W**  
 RCD Type \_\_\_\_\_  
 Options: (leave blank if std) \_\_\_\_\_  
 Induc. Code (µH): 2 significant figures and multiplier (R01=.01µH, R015=.015µH, R10=.1µH, R1R=1µH, 100=10µH, 101=100µH, 102=1000µH)  
 Tolerance Code: M=20%, K=10%, J=5% \_\_\_\_\_  
 Packaging: B= Bulk, T= Tape & Reel (2K/reel typ. 1210, 500/reel 1812)  
 Termination: W= Lead-free, Q= Tin/Lead (leave blank if either is acceptable) \_\_\_\_\_