



# SURFACE MOUNT MOLDED CHIP INDUCTORS MCI SERIES

## FEATURES

- Molded construction provides superior environmental protection.
- Compliant terminations absorb thermal expansion.
- Delivery from stock
- Available on plastic tape & reel.
- New higher current 4422 size available.**

## TYPE MCI1210

Induc. (μH)	Standard Tolerance	Q (Min.)	Test Freq. (MHz)	SRF Min. (MHz)	Max. DCR (ohm)	Rated Current (mA)
.01	±20%	15	100	2500	.13	450
.015	±20%	19	100	2100	.16	450
.022	±20%	23	100	1700	.20	450
.033	±20%	25	100	1400	.24	450
.047	±20%	26	100	1200	.30	450
.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	1.7	220
6.8	±10%	30	7.96	43	2.0	180
10	±10%	30	2.52	36	2.5	150
15	±10%	30	2.52	30	3.2	130
22	±10%	30	2.52	25	4.0	110
33	±10%	30	2.52	17	5.6	70
47	±10%	30	2.52	15	7.0	65
68	±10%	30	2.52	12	9.0	60
100	±10%	20	.796	10	10	57
150	±10%	20	.796	8	15	55
220	±10%	20	.796	7	21	50

## MARKING FORMAT

MCI1210 is marked with 3-digit resistance code (2 significant digits and a multiplier), e.g. "001" is 0.001μH, 4R7' is 4.7μH, "100' is 10μH, "101' is 100μH, MCI1812 includes 3-digit resistance code and tolerance code letter, e.g. "IR0M' is 1.0μH 20%, "101K' is 100μH 10%.

## SPECIFICATIONS

Temperature Range	-40°C to +105°C
T.C. of Inductance	+50 to +100ppm/°C typ.
Resis. to Soldering Heat	250°C, 10 seconds
Resis. to Solvents	per MIL-STD-202
Test Equipment	HP4342A, HP4191A, Wheatstone Bridge

## TYPE MCI1812

Induc. (μH)	Standard Tolerance*	Q (Min.)	Test Freq. (MHz)	SRF Min. (MHz)	Max. DCR (ohm)	Rated Current (mA)
0.10	20%	30	25.2	600	.32	480
0.12	20%	30	25.2	500	.30	480
0.15	20%	30	25.2	400	.30	480
0.18	20%	30	25.2	300	.30	480
0.22	20%	30	25.2	200	.25	480
0.27	20%	30	25.2	200	.27	460
0.33	20%	30	25.2	180	.28	450
0.39	20%	30	25.2	180	.31	450
0.47	20%	30	25.2	165	.33	450
0.56	20%	30	25.2	150	.36	450
0.68	20%	30	25.2	150	.41	450
0.82	20%	30	25.2	140	.43	450
1.0	20%	40	7.96	100	.53	450
1.2	20%	40	7.96	80	.65	430
1.5	20%	40	7.96	70	.75	410
1.8	20%	40	7.96	60	.85	390
2.2	20%	40	7.96	55	.95	380
2.7	20%	40	7.96	50	1.1	370
3.3	10%	40	7.96	45	1.2	355
3.9	10%	40	7.96	40	1.3	330
4.7	10%	40	7.96	35	1.5	315
5.6	10%	40	7.96	33	1.6	300
6.8	10%	40	7.96	27	1.7	285
8.2	10%	40	7.96	25	1.9	270
10	10%	40	7.96	20	2.1	250
12	10%	40	2.52	18	2.4	225
15	10%	40	2.52	17	2.7	200
18	10%	40	2.52	15	3.0	190
22	10%	40	2.52	13	3.4	180
27	10%	40	2.52	12	3.8	170
33	10%	40	2.52	11	4.3	160
39	10%	40	2.52	11	4.6	150
47	10%	40	2.52	10	5.2	140
56	10%	40	2.52	9.0	6.5	135
68	10%	40	2.52	9.0	7.5	130
82	10%	40	2.52	8.0	8.0	120
100	10%	40	2.52	8.0	10.0	110
120	10%	30	.79	6.0	12.3	110
150	10%	30	.79	5.0	14.2	105
180	10%	30	.79	4.5	14.7	102
220	10%	30	.79	4.3	15.9	100
270	10%	30	.79	4.0	23.8	92
330	10%	30	.79	3.5	26.2	85
390	10%	30	.79	3.0	29.2	80
470	10%	30	.79	3.0	32.2	62
560	10%	30	.79	3.0	33	50
680	10%	30	.79	3.0	33	50
820	10%	30	.79	2.5	35	50
1000	10%	30	.79	2.5	40	30

\* Available to ±5% on special order.

## P/N DESIGNATION:

(Consult factory for availability of non-standard inductance values or increased Q, SRF, or current ratings.)

**MCI1812 - 10μH - K T**

RCD Type \_\_\_\_\_

Inductance Value \_\_\_\_\_

Tolerance Code: M=20%, K=10%, J=5% \_\_\_\_\_

Packaging: 'B' Bulk, 'T' Tape & Reel \_\_\_\_\_

MCI1210 8mm, MCI1812 12mm  
(RCD option if not specified by customer.)