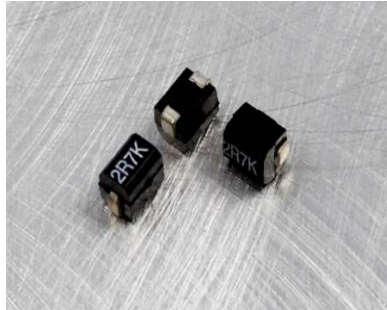


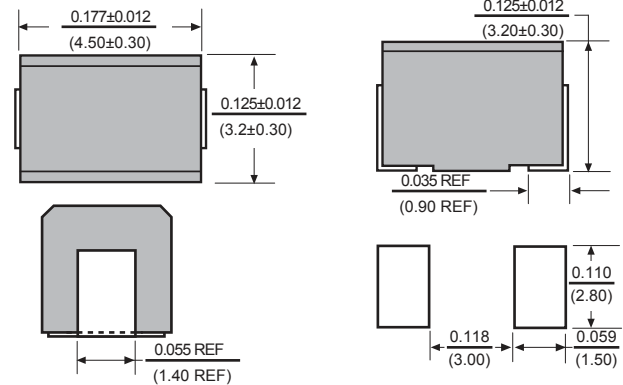


## Molded Chip Inductors

## MC30



Dimensions: Inches  
(mm)



Allied Part Number	Inductance (μH)	Tolerance (%) *	Q Min.	Test Freq. (MHz)	SRF Min (MHz)	DCR Max (Ω)	IDC (mA)
MC30-R10_-RC	0.10	K, M	35	25.2	300	0.18	800
MC30-R12_-RC	0.12	K, M	35	25.2	280	0.20	770
MC30-R15_-RC	0.15	K, M	35	25.2	250	0.22	730
MC30-R18_-RC	0.18	K, M	35	25.2	220	0.24	700
MC30-R22_-RC	0.22	K, M	40	25.2	200	0.25	665
MC30-R27_-RC	0.27	K, M	40	25.2	180	0.26	635
MC30-R33_-RC	0.33	K, M	40	25.2	165	0.28	605
MC30-R39_-RC	0.39	K, M	40	25.2	150	0.30	575
MC30-R47_-RC	0.47	K, M	40	25.2	145	0.32	545
MC30-R56_-RC	0.56	K, M	40	25.2	140	0.36	520
MC30-R68_-RC	0.68	K, M	40	25.2	135	0.40	500
MC30-R82_-RC	0.82	K, M	40	25.2	130	0.45	475
MC30-1R0_-RC	1.0	J, K, M	50	7.96	100	0.50	450
MC30-1R2_-RC	1.2	J, K, M	50	7.96	80	0.55	430
MC30-1R5_-RC	1.5	J, K, M	50	7.96	70	0.60	410
MC30-1R8_-RC	1.8	J, K, M	50	7.96	60	0.65	390
MC30-2R2_-RC	2.2	J, K, M	50	7.96	55	0.70	380
MC30-2R7_-RC	2.7	J, K, M	50	7.96	50	0.75	370
MC30-3R3_-RC	3.3	J, K, M	50	7.96	45	0.80	355
MC30-3R9_-RC	3.9	J, K, M	50	7.96	40	0.90	330
MC30-4R7_-RC	4.7	J, K, M	50	7.96	35	1.00	315
MC30-5R6_-RC	5.6	J, K, M	50	7.96	33	1.10	300
MC30-6R8_-RC	6.8	J, K, M	50	7.96	27	1.20	285
MC30-8R2_-RC	8.2	J, K, M	50	7.96	25	1.40	270
MC30-100_-RC	10	J, K, M	50	2.52	20	1.60	250
MC30-120_-RC	12	J, K, M	50	2.52	18	2.00	225
MC30-150_-RC	15	J, K, M	50	2.52	17	2.50	200
MC30-180_-RC	18	J, K, M	50	2.52	15	2.80	190
MC30-220_-RC	22	J, K, M	50	2.52	13	3.20	180
MC30-270_-RC	27	J, K, M	50	2.52	12	3.60	170
MC30-330_-RC	33	J, K, M	50	2.52	11	4.00	160
MC30-390_-RC	39	J, K, M	50	2.52	10	4.50	150
MC30-470_-RC	47	J, K, M	50	2.52	10	5.00	140
MC30-560_-RC	56	J, K, M	50	2.52	9	5.50	135
MC30-680_-RC	68	J, K, M	50	2.52	9	6.00	130
MC30-820_-RC	82	J, K, M	50	2.52	8	7.00	120
MC30-101_-RC	100	J, K, M	40	0.796	8	8.00	110
MC30-121_-RC	120	J, K, M	40	0.796	6	8.00	110
MC30-151_-RC	150	J, K, M	40	0.796	5	9.00	105
MC30-181_-RC	180	J, K, M	40	0.796	5	9.50	102
MC30-221_-RC	220	J, K, M	40	0.796	4	10.00	100
MC30-271_-RC	270	J, K, M	40	0.796	4	12.00	92
MC30-331_-RC	330	J, K, M	40	0.796	3.5	14.00	85
MC30-391_-RC	390	J, K, M	40	0.796	3	18.00	80
MC30-471_-RC	470	J, K, M	40	0.796	3	26.00	62
MC30-561_-RC	560	J, K, M	30	0.796	3	30.00	50
MC30-681_-RC	680	J, K, M	30	0.796	3	30.00	50
MC30-821_-RC	820	J, K, M	30	0.796	2.5	35.00	30
MC30-102_-RC	1000	J, K, M	20	0.252	2.5	40.00	30

\*Insert letter for desired tolerance. J=±5%, K=±10%, M=±20%.  
All specifications subject to change without notice.

**Features**

- 1812 Molded Chip Inductor
- Excellent Solder Heat Resistance
- Terminals have high resistance to pull forces

**Electrical**

**Inductance Range:** 0.10μH ~ 1000μH

**Tolerance:** 10% & 20% available range: 0.10μH~0.82μH  
5%, 10% & 20% available range: 1.0μH~1000μH

**Test Frequency:** 0.10μH~0.82μH measured @ 25.2MHz,  
1.0μH~8.2μH measured @ 7.96MHz,

10μH~82μH measured @ 2.52MHz,  
100μH~820μH measured @ 0.796MHz,

1000μH measured @ 0.252MHz,

**Operating Temp:** -25°C ~ +85°C @ 75% RH

**IDC:** The current at which inductance will drop no more than 10% of its original value.

**Resistance to Soldering Heat**

Pre-heating: 150°C, 1min

Solder Composition: Sn/Pb 63/37

Solder Temperature: 260 ± 5°C

Immersion Time: 10 ± 1sec, with no damage

**Physical**

Packaging: 500 pieces reel

Marking: EIA Inductance code