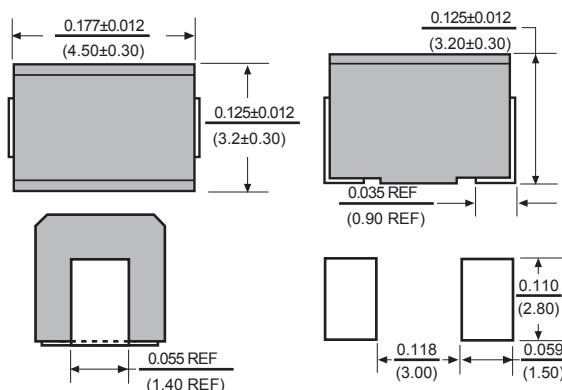




Molded Chip Inductors MC30



Dimensions: Inches (mm)



| Allied Part Number | Inductance (µh) | Tolerance (%) | Q Min. | Test Freq. (MHz) | SRF Min. (MHz) | DCR Max. (Ω) | IDC (mA) |
|--------------------|-----------------|---------------|--------|------------------|----------------|--------------|----------|
| MC30-R10K-RC | .10 | 10 | 28 | 25.2 | 700 | 0.44 | 450 |
| MC30-R12K-RC | .12 | 10 | 30 | 25.2 | 500 | 0.22 | 450 |
| MC30-R15K-RC | .15 | 10 | 30 | 25.2 | 450 | 0.25 | 450 |
| MC30-R18K-RC | .18 | 10 | 30 | 25.2 | 400 | 0.28 | 450 |
| MC30-R22K-RC | .22 | 10 | 30 | 25.2 | 350 | 0.32 | 450 |
| MC30-R27K-RC | .27 | 10 | 30 | 25.2 | 320 | 0.36 | 450 |
| MC30-R33K-RC | .33 | 10 | 30 | 25.2 | 300 | 0.40 | 450 |
| MC30-R39K-RC | .39 | 10 | 30 | 25.2 | 250 | 0.45 | 450 |
| MC30-R47K-RC | .47 | 10 | 30 | 25.2 | 220 | 0.50 | 450 |
| MC30-R56K-RC | .56 | 10 | 30 | 25.2 | 180 | 0.55 | 450 |
| MC30-R68K-RC | .68 | 10 | 30 | 25.2 | 160 | 0.60 | 450 |
| MC30-R82K-RC | .82 | 10 | 30 | 25.2 | 140 | 0.67 | 450 |
| MC30-1R0K-RC | 1.0 | 10 | 50 | 7.96 | 100 | 0.50 | 450 |
| MC30-1R2K-RC | 1.2 | 10 | 50 | 7.96 | 80 | 0.55 | 450 |
| MC30-1R5K-RC | 1.5 | 10 | 50 | 7.96 | 70 | 0.60 | 410 |
| MC30-1R8K-RC | 1.8 | 10 | 50 | 7.96 | 60 | 0.65 | 390 |
| MC30-2R2K-RC | 2.2 | 10 | 50 | 7.96 | 55 | 0.70 | 380 |
| MC30-2R7K-RC | 2.7 | 10 | 50 | 7.96 | 50 | 0.75 | 370 |
| MC30-3R3K-RC | 3.3 | 10 | 50 | 7.96 | 45 | 0.80 | 355 |
| MC30-3R9K-RC | 3.9 | 10 | 50 | 7.96 | 40 | 0.90 | 330 |
| MC30-4R7K-RC | 4.7 | 10 | 50 | 7.96 | 35 | 1.00 | 315 |
| MC30-5R6K-RC | 5.6 | 10 | 50 | 7.96 | 33 | 1.10 | 300 |
| MC30-6R8K-RC | 6.8 | 10 | 50 | 7.96 | 27 | 1.20 | 285 |
| MC30-8R2K-RC | 8.2 | 10 | 50 | 7.96 | 25 | 1.40 | 270 |
| MC30-100K-RC | 10 | 10 | 50 | 2.52 | 20 | 1.60 | 250 |
| MC30-120K-RC | 12 | 10 | 50 | 2.52 | 18 | 2.00 | 225 |
| MC30-150K-RC | 15 | 10 | 50 | 2.52 | 17 | 2.50 | 200 |
| MC30-180K-RC | 18 | 10 | 50 | 2.52 | 15 | 2.80 | 190 |
| MC30-220K-RC | 22 | 10 | 50 | 2.52 | 13 | 3.20 | 180 |
| MC30-270K-RC | 27 | 10 | 50 | 2.52 | 12 | 3.60 | 170 |
| MC30-330K-RC | 33 | 10 | 50 | 2.52 | 11 | 4.00 | 160 |
| MC30-390K-RC | 39 | 10 | 50 | 2.52 | 10 | 4.50 | 150 |
| MC30-470K-RC | 47 | 10 | 50 | 2.52 | 10 | 5.00 | 140 |
| MC30-560K-RC | 56 | 10 | 50 | 2.52 | 9.0 | 5.50 | 135 |
| MC30-680K-RC | 68 | 10 | 50 | 2.52 | 9.0 | 6.00 | 130 |
| MC30-820K-RC | 82 | 10 | 50 | 2.52 | 8.0 | 7.00 | 120 |
| MC30-101K-RC | 100 | 10 | 40 | .796 | 8.0 | 8.00 | 110 |
| MC30-121K-RC | 120 | 10 | 40 | .796 | 6.0 | 8.00 | 110 |
| MC30-151K-RC | 150 | 10 | 40 | .796 | 5.0 | 9.00 | 105 |
| MC30-181K-RC | 180 | 10 | 40 | .796 | 5.0 | 9.50 | 102 |
| MC30-221K-RC | 220 | 10 | 40 | .796 | 4.0 | 12.0 | 100 |
| MC30-271K-RC | 270 | 10 | 30 | .796 | 4.0 | 18.0 | 92 |
| MC30-331K-RC | 330 | 10 | 30 | .796 | 3.5 | 20.0 | 85 |
| MC30-391K-RC | 390 | 10 | 30 | .796 | 3.0 | 23.0 | 80 |
| MC30-471K-RC | 470 | 10 | 30 | .796 | 3.0 | 26.0 | 62 |
| MC30-561K-RC | 560 | 10 | 30 | .796 | 3.0 | 30.0 | 50 |
| MC30-681K-RC | 680 | 10 | 30 | .796 | 3.0 | 40.0 | 50 |
| MC30-821K-RC | 820 | 10 | 30 | .796 | 2.5 | 45.0 | 30 |
| MC30-102K-RC | 1000 | 10 | 30 | .796 | 2.5 | 50.0 | 30 |

Available in tighter tolerances.
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: .10µh ~ 1000µh
Tolerance: 10% over entire range
 Also available in 5%

Test Frequency:
 .10µh ~ .82µh measured at 25.2Mhz,
 1.0µh ~ 8.2µh measured at 7.96Mhz,
 10µh ~ 82µh measured at 2.52Mhz,
 100µh ~ 1000µh measured at .796Mhz,

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

IDC: The current at which inductance will drop no more than 10% of it's 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 per, 7" reel
Marking: EIA Inductance code