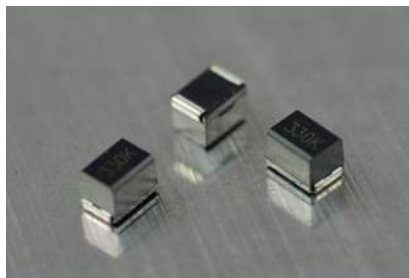
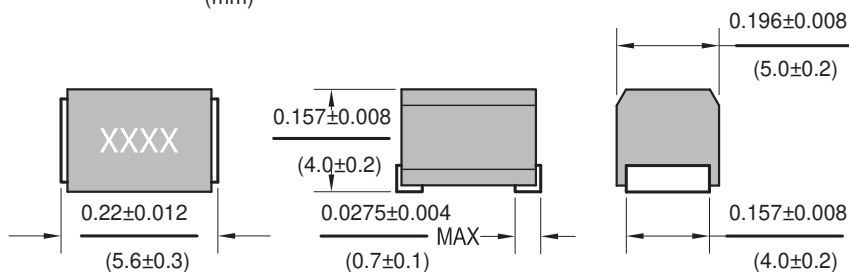


MCHC40 Molded Chip Inductor High Current



Dimensions: $\frac{\text{Inches}}{\text{(mm)}}$



Features

- 2220 High Current Molded Chip Inductor
- High Resistance to Mechanical Shock
- Precision Molding for Auto Insertion
- Excellent Solder Heat Resistance
- Welded internal lead frame to coil wire connection

Electrical

Inductance Range: 1.0 μ H ~ 10,000 μ H

Tolerance: 10% over entire range
also available in 5%

Test Frequency: 1.0 μ H ~ 8.2 μ H @ 7.96MHz,
10 μ H ~ 82 μ H @ 2.52MHz, 100 μ H~820 μ H @
.796MHz, 1000 μ H~8200 μ H @ .252MHz,
10,000 μ H @ .079MHz

Operating Temp: -40°C ~ +125°C @ 75% RH

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

Resistance to Soldering Heat

Pre-heating: 150°C, 1min

Solder Composition: Sn/Ag3.0/Cu0.5

Solder Temperature: 260 \pm 5°C

Immersion Time: 4 \pm 1sec

Physical

Packaging: 1000 pieces, 13" reel
Marking: EIA inductance code

| Allied Part Number | Inductance (μ H) | Tolerance (%) | Q Min. | L,Q Test Freq. (MHz) | SRF Min. (MHz) | DCR Max. (Ω) | IDC (mA) |
|--------------------|-----------------------|---------------|--------|----------------------|----------------|-----------------------|----------|
| MCHC40-1R0K-RC | 1.0 | 10 | 10 | 7.96 | 95 | 0.030 | 1800 |
| MCHC40-1R2K-RC | 1.2 | 10 | 10 | 7.96 | 70 | 0.035 | 1700 |
| MCHC40-1R5K-RC | 1.5 | 10 | 10 | 7.96 | 55 | 0.04 | 1600 |
| MCHC40-1R8K-RC | 1.8 | 10 | 10 | 7.96 | 47 | 0.05 | 1400 |
| MCHC40-2R2K-RC | 2.2 | 10 | 10 | 7.96 | 42 | 0.06 | 1300 |
| MCHC40-2R7K-RC | 2.7 | 10 | 10 | 7.96 | 37 | 0.07 | 1200 |
| MCHC40-3R3K-RC | 3.3 | 10 | 10 | 7.96 | 34 | 0.08 | 1120 |
| MCHC40-3R9K-RC | 3.9 | 10 | 10 | 7.96 | 32 | 0.09 | 1050 |
| MCHC40-4R7K-RC | 4.7 | 10 | 10 | 7.96 | 29 | 0.11 | 950 |
| MCHC40-5R6K-RC | 5.6 | 10 | 10 | 7.96 | 26 | 0.13 | 880 |
| MCHC40-6R8K-RC | 6.8 | 10 | 10 | 7.96 | 24 | 0.15 | 810 |
| MCHC40-8R2K-RC | 8.2 | 10 | 10 | 7.96 | 22 | 0.18 | 750 |
| MCHC40-100K-RC | 10 | 10 | 10 | 2.52 | 19 | 0.21 | 690 |
| MCHC40-120K-RC | 12 | 10 | 10 | 2.52 | 17 | 0.25 | 630 |
| MCHC40-150K-RC | 15 | 10 | 10 | 2.52 | 16 | 0.30 | 580 |
| MCHC40-180K-RC | 18 | 10 | 10 | 2.52 | 14 | 0.36 | 530 |
| MCHC40-220K-RC | 22 | 10 | 10 | 2.52 | 13 | 0.43 | 480 |
| MCHC40-270K-RC | 27 | 10 | 10 | 2.52 | 11.5 | 0.52 | 440 |
| MCHC40-330K-RC | 33 | 10 | 10 | 2.52 | 10.5 | 0.62 | 400 |
| MCHC40-390K-RC | 39 | 10 | 10 | 2.52 | 9.5 | 0.72 | 370 |
| MCHC40-470K-RC | 47 | 10 | 10 | 2.52 | 8.5 | 0.85 | 340 |
| MCHC40-560K-RC | 56 | 10 | 10 | 2.52 | 7.8 | 1.0 | 310 |
| MCHC40-680K-RC | 68 | 10 | 10 | 2.52 | 7.0 | 1.2 | 290 |
| MCHC40-820K-RC | 82 | 10 | 10 | 2.52 | 6.4 | 1.4 | 270 |
| MCHC40-101K-RC | 100 | 10 | 20 | 0.796 | 6.0 | 1.6 | 250 |
| MCHC40-121K-RC | 120 | 10 | 20 | 0.796 | 5.4 | 1.9 | 230 |
| MCHC40-151K-RC | 150 | 10 | 20 | 0.796 | 4.8 | 2.2 | 210 |
| MCHC40-181K-RC | 180 | 10 | 20 | 0.796 | 4.4 | 2.8 | 190 |
| MCHC40-221K-RC | 220 | 10 | 20 | 0.796 | 3.9 | 3.4 | 170 |
| MCHC40-271K-RC | 270 | 10 | 20 | 0.796 | 3.6 | 4.2 | 155 |
| MCHC40-331K-RC | 330 | 10 | 20 | 0.796 | 3.2 | 4.9 | 140 |
| MCHC40-391K-RC | 390 | 10 | 20 | 0.796 | 2.9 | 5.8 | 130 |
| MCHC40-471K-RC | 470 | 10 | 20 | 0.796 | 2.6 | 7.0 | 120 |
| MCHC40-561K-RC | 560 | 10 | 20 | 0.796 | 2.4 | 8.5 | 110 |
| MCHC40-681K-RC | 680 | 10 | 20 | 0.796 | 2.2 | 10 | 100 |
| MCHC40-821K-RC | 820 | 10 | 20 | 0.796 | 2.0 | 13 | 90 |
| MCHC40-102K-RC | 1000 | 10 | 20 | 0.252 | 1.8 | 15 | 85 |
| MCHC40-122K-RC | 1200 | 10 | 20 | 0.252 | 1.5 | 17 | 75 |
| MCHC40-152K-RC | 1500 | 10 | 20 | 0.252 | 1.4 | 20 | 70 |
| MCHC40-182K-RC | 1800 | 10 | 20 | 0.252 | 1.3 | 30 | 60 |
| MCHC40-222K-RC | 2200 | 10 | 20 | 0.252 | 1.2 | 35 | 55 |
| MCHC40-272K-RC | 2700 | 10 | 20 | 0.252 | 1.1 | 55 | 45 |
| MCHC40-332K-RC | 3300 | 10 | 20 | 0.252 | 1.0 | 60 | 40 |
| MCHC40-392K-RC | 3900 | 10 | 20 | 0.252 | 1.0 | 70 | 38 |
| MCHC40-472K-RC | 4700 | 10 | 20 | 0.252 | 0.9 | 78 | 36 |
| MCHC40-562K-RC | 5600 | 10 | 20 | 0.252 | 0.8 | 85 | 33 |
| MCHC40-682K-RC | 6800 | 10 | 20 | 0.252 | 0.7 | 110 | 30 |
| MCHC40-822K-RC | 8200 | 10 | 20 | 0.252 | 0.6 | 125 | 28 |
| MCHC40-103K-RC | 10000 | 10 | 20 | 0.0796 | 0.5 | 150 | 25 |

All specifications subject to change without notice.