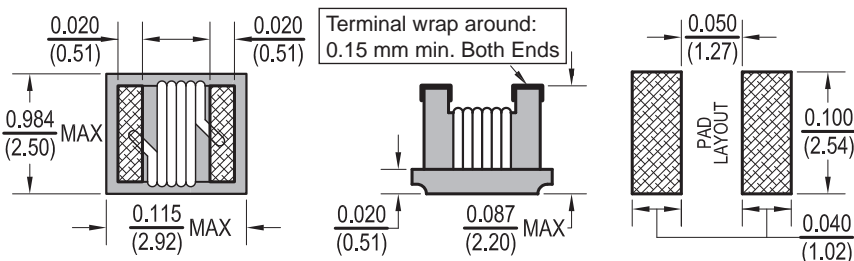


FCHC10 Ferrite Core Chip Inductors High Current



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



| Allied Part Number | Inductance (μh) | Tolerance (%) | Q Min. | LQ Test Freq. (MHz) | SRF Min. (MHz) | DCR Max. (Ω) | IDC (mA) |
|--------------------|------------------------------|---------------|--------|---------------------|----------------|-----------------------|----------|
| FCHC10-1R0K-RC | 1.0 | 10 | 25 | 7.96 | 300 | .34 | 1500 |
| FCHC10-1R2K-RC | 1.2 | 10 | 25 | 7.96 | 280 | .40 | 1400 |
| FCHC10-1R5K-RC | 1.5 | 10 | 25 | 7.96 | 270 | .42 | 1400 |
| FCHC10-2R2K-RC | 2.2 | 10 | 25 | 7.96 | 140 | .50 | 1200 |
| FCHC10-3R3K-RC | 3.3 | 10 | 25 | 7.96 | 95 | .65 | 1000 |
| FCHC10-4R7K-RC | 4.7 | 10 | 25 | 7.96 | 90 | .80 | 800 |
| FCHC10-6R8K-RC | 6.8 | 10 | 25 | 7.96 | 68 | 1.0 | 730 |
| FCHC10-100K-RC | 10 | 10 | 20 | 2.52 | 45 | 1.5 | 700 |
| FCHC10-150K-RC | 15 | 10 | 20 | 2.52 | 40 | 2.2 | 500 |
| FCHC10-220K-RC | 22 | 10 | 20 | 2.52 | 25 | 2.7 | 470 |
| FCHC10-330K-RC | 33 | 10 | 20 | 2.52 | 25 | 4.5 | 400 |
| FCHC10-470K-RC | 47 | 10 | 16 | 2.52 | 20 | 8.0 | 300 |

All specifications subject to change without notice.

Features

- Designed for higher current applications
- Accurate and consistent dimensions for auto insertion.
- Highly resistant to mechanical forces
- Excellent reliability in temperature and climate change
- Excellent Solderability Characteristics

Electrical

Inductance Range: 1.0 μh to 47 μh

Tolerance: 10% across entire range, also available in 5%.

Test Frequency: (L/Q) as specified, test OSC @ 200mV

Operating Temp. Range: -25°C ~ 85°C

IDC: Inductance drop 10% Typ. from original value with no current.

Resistance to Solder Heat

Test Method: Reflow solder the device onto PCB

Peak Temp: 260°C \pm for 10 sec.

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

Test time: 6 minutes

Test Equipment

(L & Q): HP4191A / HP4285A

(DCR): Chen Hwa 502BC

(SRF): HP4291A / HP8753D RF Impedance Analyzer

(IDC): HP4284A with HP42841A

Physical

Packaging: 2000 pieces per 7 inch reel

Marking: Three Dot Color Code