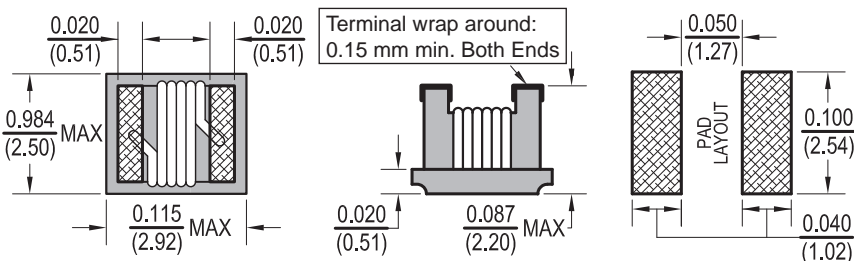


# FCHC10 Ferrite Core Chip Inductors High Current



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



Allied Part Number	Inductance ( $\mu\text{h}$ )	Tolerance (%)	Q Min.	LQ Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. ( $\Omega$ )	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  $\mu\text{h}$  to 47 $\mu\text{h}$

**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