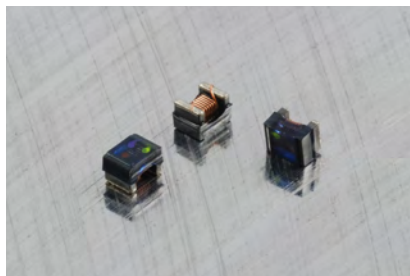
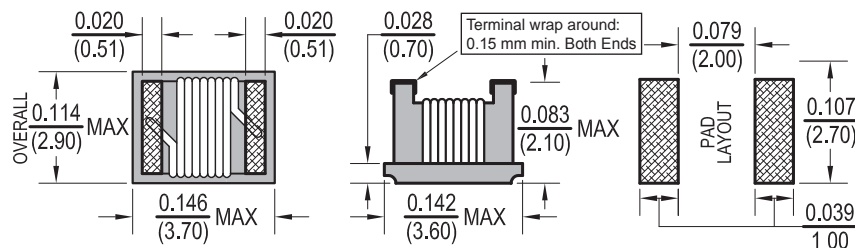


# FCHC20 Ferrite Core Chip Inductors High Current



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



Allied Part Number	Inductance ( $\mu\text{H}$ )	Tolerance (%)	Q Min.	L/Q Test Freq. (MHz)	SRF (MHz) Typ	DCR ( $\Omega \pm 30\%$ )	IDC (mA)
FCHC20-R47K-RC	.47	10	40	25.2	450	0.07	1800
FCHC20-1R0K-RC	1.0	10	20	7.96	100	0.08	1500
FCHC20-1R2K-RC	1.2	10	20	7.96	90	0.12	1400
FCHC20-1R5K-RC	1.5	10	20	7.96	80	0.13	1125
FCHC20-1R8K-RC	1.8	10	20	7.96	70	0.13	970
FCHC20-2R2K-RC	2.2	10	20	7.96	68	0.13	970
FCHC20-2R7K-RC	2.7	10	20	7.96	62	0.15	900
FCHC20-3R3K-RC	3.3	10	20	7.96	54	0.16	837
FCHC20-4R7K-RC	4.7	10	20	7.96	43	0.23	675
FCHC20-5R6K-RC	5.6	10	20	7.96	36	0.26	620
FCHC20-6R8K-RC	6.8	10	20	7.96	33	0.27	600
FCHC20-8R2K-RC	8.2	10	20	7.96	30	0.32	580
FCHC20-100K-RC	10	10	15	2.52	28	0.36	520
FCHC20-150K-RC	15	10	15	2.52	19	0.56	480
FCHC20-180K-RC	18	10	15	2.52	17	0.67	330
FCHC20-220K-RC	22	10	15	2.52	16	0.77	310
FCHC20-270K-RC	27	10	15	2.52	13	1.00	280
FCHC20-330K-RC	33	10	15	2.52	12	1.10	270
FCHC20-390K-RC	39	10	15	2.52	11	1.40	220
FCHC20-470K-RC	47	10	15	2.52	10	1.64	210
FCHC20-560K-RC	56	10	15	2.52	9	2.49	189
FCHC20-680K-RC	68	10	15	2.52	9	2.80	189
FCHC20-820K-RC	82	10	15	2.52	6	3.00	145
FCHC20-101K-RC	100	10	15	.796	6	3.70	145
FCHC20-151K-RC	150	10	15	.796	5	6.10	120
FCHC20-181K-RC	180	10	15	.796	4	8.00	105
FCHC20-221K-RC	220	10	15	.796	4	8.40	100
FCHC20-331K-RC	330	10	15	.796	3.5	12.3	80
FCHC20-391K-RC	390	10	15	.796	2.8	17.6	75
FCHC20-471K-RC	470	10	15	.796	2.8	22.0	75
FCHC20-561K-RC	560	10	15	.796	2.5	23.0	65
FCHC20-681K-RC	680	10	15	.796	2.0	28.0	65

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:** .47 $\mu\text{H}$  to 680 $\mu\text{H}$

**Tolerance:** 10% Across entire range, also available in 5%

**Test Frequency:** (L/Q) as specified

**Operating Temp:** -25°C ~ 105°C

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

## Resistance to Soldering Heat

**Test Method:** Reflow Solder the device onto PCB

**Peak Temp:** 260°C  $\pm$  5°C for 10 sec.

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

**Total Test Time:** 6 minutes

## Test Equipment

**(L/Q):** HP4191A over 1MHz / HP4285A under 1 MHz

**(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 System