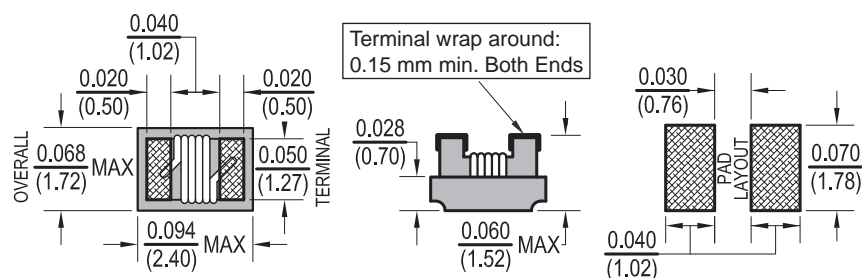


# FC05 Ferrite Core Chip Inductors



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



Allied Part Number	Inductance ( $\mu\text{h}$ )	Tolerance (%)	Q Min.	Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. ( $\Omega$ )	IDC (mA)
FC05-R12K-RC	0.12	10	25	25.2	500	0.20	600
FC05-R15K-RC	0.15	10	25	25.2	450	0.25	600
FC05-R18K-RC	0.18	10	25	25.2	410	0.30	570
FC05-R22K-RC	0.22	10	25	25.2	350	0.35	550
FC05-R27K-RC	0.27	10	25	25.2	280	0.40	530
FC05-R33K-RC	0.33	10	25	25.2	235	0.45	510
FC05-R39K-RC	0.39	10	25	25.2	210	0.50	490
FC05-R47K-RC	0.47	10	25	25.2	170	0.55	470
FC05-R56K-RC	0.56	10	25	25.2	150	0.60	450
FC05-R68K-RC	0.68	10	25	25.2	140	0.70	420
FC05-R82K-RC	0.82	10	25	25.2	130	0.75	400
FC05-1R0K-RC	1.00	10	15	7.96	115	0.80	350
FC05-1R2K-RC	1.20	10	15	7.96	95	0.90	325
FC05-1R5K-RC	1.50	10	15	7.96	85	1.05	300
FC05-1R8K-RC	1.80	10	15	7.96	80	1.20	270
FC05-2R2K-RC	2.20	10	15	7.96	75	1.40	250
FC05-2R7K-RC	2.70	10	15	7.96	70	1.60	230
FC05-3R3K-RC	3.30	10	15	7.96	60	1.80	210
FC05-3R9K-RC	3.90	10	15	7.96	55	2.00	190
FC05-4R7K-RC	4.70	10	15	7.96	45	2.40	170
FC05-5R6K-RC	5.60	10	15	7.96	40	2.70	150
FC05-6R8K-RC	6.80	10	15	7.96	36	3.20	140
FC05-8R2K-RC	8.20	10	15	7.96	33	3.60	120
FC05-100K-RC	10.0	10	15	2.52	30	4.50	110
FC05-120K-RC	12.0	10	15	2.52	25	5.70	105
FC05-150K-RC	15.0	10	15	2.52	23	6.50	90
FC05-180K-RC	18.0	10	15	2.52	21	7.00	85
FC05-220K-RC	22.0	10	15	2.52	20	8.00	78
FC05-270K-RC	27.0	10	15	2.52	18	9.00	75
FC05-330K-RC	33.0	10	15	2.52	17	10.0	70

All specifications subject to change without notice.

## Features

- Ferrite core for broader inductance range
- Accurate dimensions for auto insertion
- Low DCR for Low Loss Applications
- Excellent Solderability Characteristics
- Highly resistant to mechanical forces
- Excellent reliability in temperature and climate change

## Electrical

**Inductance Range:** .12  $\mu\text{h}$  to 33 $\mu\text{h}$

**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 RF Impedance Analyzer

**(DCR):** Chen Hwa 502BC

**(SRF):** HP4291A RF Impedance Analyzer

**(IDC):** HP4284A with HP42841A

## Physical

**Packaging:** 2000 pieces per 7 inch reel

**Marking:** Three Dot Color Code