

# CTCOF-5R6J Datasheet

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|                              |                                      |
|------------------------------|--------------------------------------|
| DiGi Electronics Part Number | CTCOF-5R6J-DG                        |
| Manufacturer                 | <a href="#">Central Technologies</a> |
| Manufacturer Product Number  | CTCOF-5R6J                           |
| Description                  | AXL LEADED CONF COATED INDUCTOR      |
| Detailed Description         | 5.6 $\mu$ H Inductor 1.9Ohm          |

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Tel: +00 852-30501935

RFQ Email: [Info@DiGi-Electronics.com](mailto:Info@DiGi-Electronics.com)

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## Purchase and inquiry

Manufacturer Product Number:

CTC0F-5R6J

Series:

ctc0f

Inductance:

5.6  $\mu$ H

DC Resistance (DCR):

1.90hm

Operating Temperature:

-55°C ~ 125°C

Manufacturer:

Central Technologies

Product Status:

Active

Tolerance:

$\pm$ 5%

Frequency - Self Resonant:

30MHz

Mounting Type:

Through Hole

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH info available upon request

Moisture Sensitivity Level (MSL):

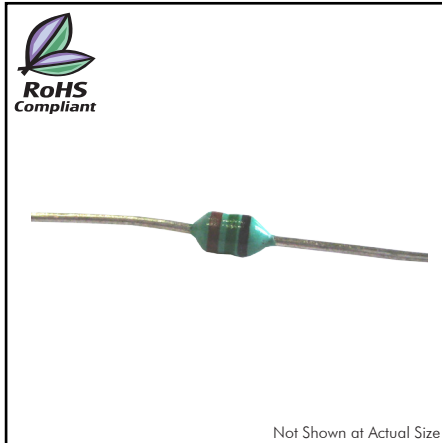
Vendor Undefined



# Conformal Coated Inductors - Axial

## CTCOF Series

From .22 $\mu$ H to 220 $\mu$ H



### CHARACTERISTICS

**Description:** Axial leaded conformal coated inductor

**Applications:** Used in less harsh environments. Ideal for less critical RFL/EMI applications

**Operating Temperature:** -55°C to + 125°C

**Inductance Tolerance:**  $\pm 5\%$ ,  $\pm 10\%$ ,  $\pm 20\%$

**Testing:** Inductance and Q are tested on an HP4285A at specified frequency

**Packaging:** Bulk - 1000 pieces per bag, Tape & Reel - 5000 pieces per reel

**Material:** Magnetic core treated with epoxy resin for protection and longer reliability

**Marking:** Parts are EIA three color banded indicating inductance value and tolerance

**Miscellaneous:** **RoHS Compliant.** Other values available.

**Additional Information:** Additional electrical & physical information available upon request.

**Samples available. See website for ordering information.**

### SPECIFICATIONS

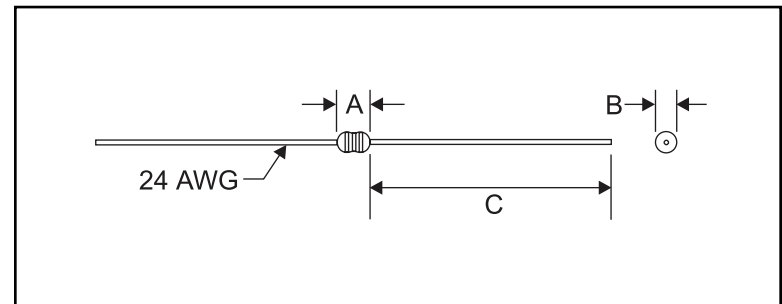
Please specify inductance tolerance when ordering.

CTCOF-R22\_  $\leftarrow$  J =  $\pm 5\%$ , K =  $\pm 10\%$ , M =  $\pm 20\%$

| Part Number | Inductance ( $\mu$ H) | L Test Freq. (MHz) | Q Factor Min. | Q Test Freq. (MHz) | SRF Min. (MHz) | DCR Max. ( $\Omega$ ) | Rated DC (mA) |
|-------------|-----------------------|--------------------|---------------|--------------------|----------------|-----------------------|---------------|
| CTCOF-R22_  | .22                   | 25.2               | 42            | 25.2               | 150            | .40                   | 400           |
| CTCOF-R27_  | .27                   | 25.2               | 42            | 25.2               | 150            | .43                   | 380           |
| CTCOF-R33_  | .33                   | 25.2               | 42            | 25.2               | 150            | .48                   | 370           |
| CTCOF-R39_  | .39                   | 25.2               | 42            | 25.2               | 150            | .51                   | 350           |
| CTCOF-R47_  | .47                   | 25.2               | 42            | 25.2               | 150            | .56                   | 330           |
| CTCOF-R56_  | .56                   | 25.2               | 42            | 25.2               | 150            | .61                   | 320           |
| CTCOF-R68_  | .68                   | 25.2               | 50            | 25.2               | 150            | .67                   | 310           |
| CTCOF-R82_  | .82                   | 25.2               | 50            | 25.2               | 150            | .71                   | 290           |
| CTCOF-1R0_  | 1.0                   | 25.2               | 50            | 25.2               | 150            | .80                   | 270           |
| CTCOF-1R2_  | 1.2                   | 7.96               | 50            | 7.96               | 110            | .90                   | 260           |
| CTCOF-1R5_  | 1.5                   | 7.96               | 50            | 7.96               | 80             | 1.00                  | 250           |
| CTCOF-1R8_  | 1.8                   | 7.96               | 50            | 7.96               | 80             | 1.10                  | 240           |
| CTCOF-2R2_  | 2.2                   | 7.96               | 50            | 7.96               | 45             | 1.20                  | 230           |
| CTCOF-2R7_  | 2.7                   | 7.96               | 50            | 7.96               | 40             | 1.30                  | 220           |
| CTCOF-3R3_  | 3.3                   | 7.96               | 55            | 7.96               | 38             | 1.40                  | 210           |
| CTCOF-3R9_  | 3.9                   | 7.96               | 55            | 7.96               | 35             | 1.60                  | 200           |
| CTCOF-4R7_  | 4.7                   | 7.96               | 55            | 7.96               | 32             | 1.70                  | 190           |
| CTCOF-5R6_  | 5.6                   | 7.96               | 55            | 7.96               | 30             | 1.90                  | 180           |
| CTCOF-6R8_  | 6.8                   | 7.96               | 55            | 7.96               | 28             | 2.00                  | 175           |
| CTCOF-8R2_  | 8.2                   | 7.96               | 55            | 7.96               | 26             | 2.20                  | 165           |
| CTCOF-100_  | 10                    | 7.96               | 55            | 7.96               | 24             | 2.50                  | 160           |
| CTCOF-120_  | 12                    | 2.52               | 55            | 2.52               | 22             | 2.50                  | 150           |
| CTCOF-150_  | 15                    | 2.52               | 55            | 2.52               | 20             | 2.80                  | 145           |
| CTCOF-180_  | 18                    | 2.52               | 55            | 2.52               | 18             | 3.10                  | 140           |
| CTCOF-220_  | 22                    | 2.52               | 55            | 2.52               | 17             | 3.40                  | 130           |
| CTCOF-270_  | 27                    | 2.52               | 55            | 2.52               | 16             | 4.30                  | 80            |
| CTCOF-330_  | 33                    | 2.52               | 55            | 2.52               | 14             | 4.70                  | 76            |
| CTCOF-390_  | 39                    | 2.52               | 55            | 2.52               | 13             | 5.20                  | 74            |
| CTCOF-470_  | 47                    | 2.52               | 55            | 2.52               | 12             | 5.80                  | 70            |
| CTCOF-560_  | 56                    | 2.52               | 55            | 2.52               | 11             | 6.40                  | 68            |
| CTCOF-680_  | 68                    | 2.52               | 55            | 2.52               | 10             | 7.20                  | 64            |
| CTCOF-820_  | 82                    | 2.52               | 55            | 2.52               | 9.5            | 11.0                  | 46            |
| CTCOF-101_  | 100                   | .796               | 55            | .796               | 9.0            | 12.0                  | 44            |
| CTCOF-121_  | 120                   | .796               | 55            | .796               | 8.0            | 13.0                  | 43            |
| CTCOF-151_  | 150                   | .796               | 55            | .796               | 6.0            | 16.0                  | 40            |
| CTCOF-181_  | 180                   | .796               | 55            | .796               | 5.5            | 18.0                  | 38            |
| CTCOF-221_  | 220                   | .796               | 55            | .796               | 5.0            | 20.0                  | 35            |

### PHYSICAL DIMENSIONS

| Size   | A                | B               | C<br>Nom. |
|--------|------------------|-----------------|-----------|
| mm     | 4.31 $\pm$ 0.51  | 2.28 $\pm$ 0.25 | 29.21     |
| inches | 0.170 $\pm$ 0.02 | 0.09 $\pm$ 0.01 | 1.15      |



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