

CTCOF-8R2J Datasheet

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|------------------------------|--------------------------------------|
| DiGi Electronics Part Number | CTCOF-8R2J-DG |
| Manufacturer | Central Technologies |
| Manufacturer Product Number | CTCOF-8R2J |
| Description | AXL LEADED CONF COATED INDUCTOR |
| Detailed Description | 8.2 μ H Inductor 2.2Ohm |

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Purchase and inquiry

Manufacturer Product Number:

CTC0F-8R2J

Series:

ctc0f

Inductance:

8.2 μ H

DC Resistance (DCR):

2.2Ohm

Operating Temperature:

-55°C ~ 125°C

Manufacturer:

Central Technologies

Product Status:

Active

Tolerance:

\pm 5%

Frequency - Self Resonant:

26MHz

Mounting Type:

Through Hole

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH info available upon request

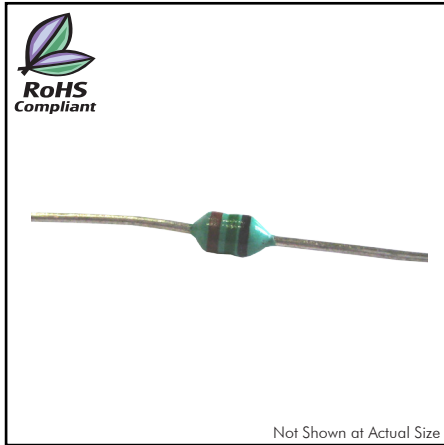
Moisture Sensitivity Level (MSL):

Vendor Undefined

Conformal Coated Inductors - Axial

CTC0F Series

From .22 μ H to 220 μ 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

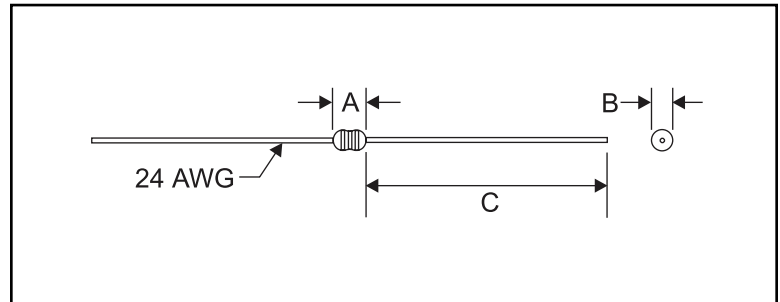
Please specify inductance tolerance when ordering.

CTC0F-R22_ \leftarrow J = $\pm 5\%$, K = $\pm 10\%$, M = $\pm 20\%$

| Part Number | Inductance (μ H) | L Test Freq. (MHz) | Q Factor Min. | Q Test Freq. (MHz) | SRF Min. (MHz) | DCR Max. (Ω) | Rated DC (mA) |
|-------------|-----------------------|--------------------|---------------|--------------------|----------------|-----------------------|---------------|
| CTC0F-R22_ | .22 | 25.2 | 42 | 25.2 | 150 | .40 | 400 |
| CTC0F-R27_ | .27 | 25.2 | 42 | 25.2 | 150 | .43 | 380 |
| CTC0F-R33_ | .33 | 25.2 | 42 | 25.2 | 150 | .48 | 370 |
| CTC0F-R39_ | .39 | 25.2 | 42 | 25.2 | 150 | .51 | 350 |
| CTC0F-R47_ | .47 | 25.2 | 42 | 25.2 | 150 | .56 | 330 |
| CTC0F-R56_ | .56 | 25.2 | 42 | 25.2 | 150 | .61 | 320 |
| CTC0F-R68_ | .68 | 25.2 | 50 | 25.2 | 150 | .67 | 310 |
| CTC0F-R82_ | .82 | 25.2 | 50 | 25.2 | 150 | .71 | 290 |
| CTC0F-1R0_ | 1.0 | 25.2 | 50 | 25.2 | 150 | .80 | 270 |
| CTC0F-1R2_ | 1.2 | 7.96 | 50 | 7.96 | 110 | .90 | 260 |
| CTC0F-1R5_ | 1.5 | 7.96 | 50 | 7.96 | 80 | 1.00 | 250 |
| CTC0F-1R8_ | 1.8 | 7.96 | 50 | 7.96 | 80 | 1.10 | 240 |
| CTC0F-2R2_ | 2.2 | 7.96 | 50 | 7.96 | 45 | 1.20 | 230 |
| CTC0F-2R7_ | 2.7 | 7.96 | 50 | 7.96 | 40 | 1.30 | 220 |
| CTC0F-3R3_ | 3.3 | 7.96 | 55 | 7.96 | 38 | 1.40 | 210 |
| CTC0F-3R9_ | 3.9 | 7.96 | 55 | 7.96 | 35 | 1.60 | 200 |
| CTC0F-4R7_ | 4.7 | 7.96 | 55 | 7.96 | 32 | 1.70 | 190 |
| CTC0F-5R6_ | 5.6 | 7.96 | 55 | 7.96 | 30 | 1.90 | 180 |
| CTC0F-6R8_ | 6.8 | 7.96 | 55 | 7.96 | 28 | 2.00 | 175 |
| CTC0F-8R2_ | 8.2 | 7.96 | 55 | 7.96 | 26 | 2.20 | 165 |
| CTC0F-100_ | 10 | 7.96 | 55 | 7.96 | 24 | 2.50 | 160 |
| CTC0F-120_ | 12 | 2.52 | 55 | 2.52 | 22 | 2.50 | 150 |
| CTC0F-150_ | 15 | 2.52 | 55 | 2.52 | 20 | 2.80 | 145 |
| CTC0F-180_ | 18 | 2.52 | 55 | 2.52 | 18 | 3.10 | 140 |
| CTC0F-220_ | 22 | 2.52 | 55 | 2.52 | 17 | 3.40 | 130 |
| CTC0F-270_ | 27 | 2.52 | 55 | 2.52 | 16 | 4.30 | 80 |
| CTC0F-330_ | 33 | 2.52 | 55 | 2.52 | 14 | 4.70 | 76 |
| CTC0F-390_ | 39 | 2.52 | 55 | 2.52 | 13 | 5.20 | 74 |
| CTC0F-470_ | 47 | 2.52 | 55 | 2.52 | 12 | 5.80 | 70 |
| CTC0F-560_ | 56 | 2.52 | 55 | 2.52 | 11 | 6.40 | 68 |
| CTC0F-680_ | 68 | 2.52 | 55 | 2.52 | 10 | 7.20 | 64 |
| CTC0F-820_ | 82 | 2.52 | 55 | 2.52 | 9.5 | 11.0 | 46 |
| CTC0F-101_ | 100 | .796 | 55 | .796 | 9.0 | 12.0 | 44 |
| CTC0F-121_ | 120 | .796 | 55 | .796 | 8.0 | 13.0 | 43 |
| CTC0F-151_ | 150 | .796 | 55 | .796 | 6.0 | 16.0 | 40 |
| CTC0F-181_ | 180 | .796 | 55 | .796 | 5.5 | 18.0 | 38 |
| CTC0F-221_ | 220 | .796 | 55 | .796 | 5.0 | 20.0 | 35 |

PHYSICAL DIMENSIONS

| Size | A | B | C |
|--------|------------------|-----------------|-------|
| 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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