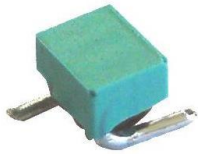


# CTAF05TJ Datasheet

[www.digi-electronics.com](http://www.digi-electronics.com)



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	CTAF05TJ-DG
Manufacturer	<a href="#">Central Technologies</a>
Manufacturer Product Number	CTAF05TJ
Description	SMD AIR CORE INDUCTOR
Detailed Description	18.5 nH Wirewound Inductor 3.9mOhm



Tel: +00 852-30501935

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

DiGi is a global authorized distributor of electronic components.

## Purchase and inquiry

Manufacturer Product Number:

CTAF05TJ

Series:

ctaf

Type:

Wirewound

Tolerance:

±5%

Frequency - Self Resonant:

2.5GHz

Mounting Type:

Surface Mount

Manufacturer:

Central Technologies

Product Status:

Active

Inductance:

18.5 nH

DC Resistance (DCR):

3.9mOhm

Operating Temperature:

-40°C ~ 85°C

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH info available upon request

Moisture Sensitivity Level (MSL):

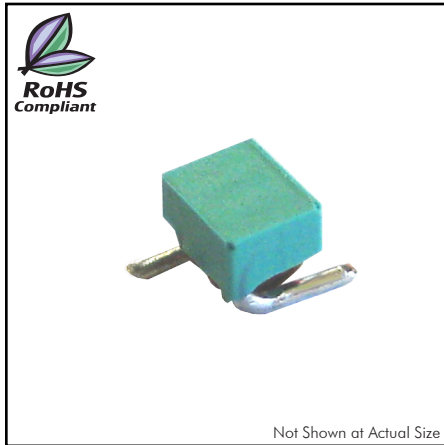
Vendor Undefined



# Wire-wound Chip Inductors - Open Wound www.ctparts.com

## CTAF & CTBF Series

### From 2.5nH to 43nH



### CHARACTERISTICS

**Description:** SMD air core "spring" inductor  
**Applications:** Designed to operate a wide frequency range application. Also designed to operate in high Q applications  
**Operating Temperature:** -40°C to +85°C  
**Inductance Tolerance:** ±2%, ±5%, ±10%  
**Testing:** Inductance is tested on an HP4286A at 150MHz  
**Packaging:** Tape & Reel  
**Miscellaneous:** **RoHS Compliant.**  
**Additional Information:** Additional electrical & physical information available upon request.  
**Samples available. See website for ordering information.**

### SPECIFICATIONS

Part numbers indicate inductance tolerance available.  
 CTAF03T\_ ← G = ±2%, J = ±5%, K = ±10%

Part Number	Inductance (nH)	# of Turns	Q Fact. Min.	SRF (GHz)	DCR Max. (mΩ)	IDC Max. (A)
CTAF01TK	2.5	1	145	12.5	1.1	4
CTAF02TK	5.0	2	140	6.5	1.8	4
CTAF03T_	8.0	3	140	5.0	2.6	4
CTAF04T_	12.5	4	137	3.3	3.4	4
CTAF05T_	18.5	5	132	2.5	3.9	4
CTBF06T_	17.5	6	100	2.2	4.5	4
CTBF07T_	22.0	7	102	2.1	5.2	4
CTBF08T_	28.0	8	105	1.8	6.0	4
CTBF09T_	35.5	9	112	1.5	6.8	4
CTBF10T_	43.0	10	106	1.2	7.9	4

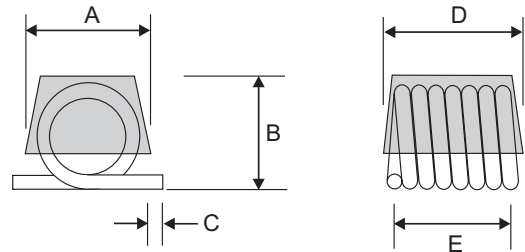
### PHYSICAL DIMENSIONS

#### CTAF SERIES

Size	*A	*B	*C	*D	*E
mm	3.05	3.18	0.58±0.38	3.68	2.92±0.25
inches	0.12	0.125	0.023±0.015	0.145	0.115±0.01

#### CTBF SERIES

Size	A	B	C	D	E
mm	3.05	3.18	0.58±0.38	6.86	5.84±0.25
inches	0.12	0.125	0.023±0.015	0.270	0.230±0.01



\*Dimensions for CTAF01TK & CTAF02TK:

A: 2.6±0.2mm / 0.102±0.008"  
 B: 2.7±0.2mm / 0.106±0.008"  
 C: 0.7±0.2mm / 0.028±0.008"  
 D: 3.3±0.3mm / 0.130±0.012"  
 E: 2.9±0.3mm / 0.114±0.012"

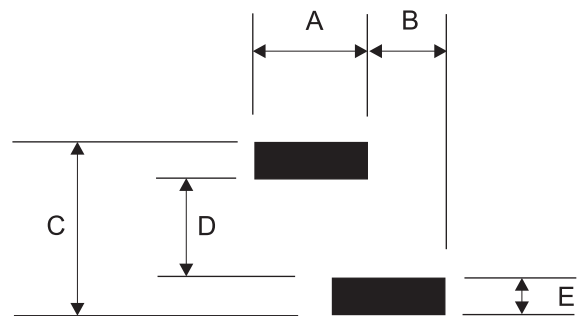
### PAD LAYOUT

#### CTAF SERIES

Size	A	B	C	D	E
mm	3.3	2.79	4.19	1.65	1.27
inches	0.13	0.11	0.165	0.065	0.05

#### CTBF SERIES

Size	A	B	C	D	E
mm	3.3	2.79	7.24	4.7	1.27
inches	0.13	0.11	0.285	0.185	0.05



## OUR CERTIFICATE

DiGi provide top-quality products and perfect service for customer worldwide through standardization, technological innovation and continuous improvement. DiGi through third-party certification, we stricly control the quality of products and services. Welcome your RFQ to

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