

# CTDR1F-6R8M Datasheet

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DiGi Electronics Part Number	CTDR1F-6R8M-DG
Manufacturer	<a href="#">Central Technologies</a>
Manufacturer Product Number	CTDR1F-6R8M
Description	6.8UH RADIAL DRUM CORE INDUCTOR
Detailed Description	6.8 $\mu$ H Unshielded Drum Core, Wirewound Inductor 8mOhm Max Radial, Vertical Cylinder

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## Purchase and inquiry

Manufacturer Product Number:

CTDR1F-6R8M

Series:

CTDR1F

Type:

Drum Core, Wirewound

Inductance:

6.8  $\mu$ H

Current - Saturation (Isat):

9A

DC Resistance (DCR):

8mOhm Max

Frequency - Self Resonant:

-

Operating Temperature:

-25°C ~ 85°C

Features:

-

Package / Case:

Radial, Vertical Cylinder

Size / Dimension:

0.669" Dia (17.00mm)

Manufacturer:

Central Technologies

Product Status:

Active

Material - Core:

-

Tolerance:

$\pm$ 20%

Shielding:

Unshielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

1 kHz

Mounting Type:

Through Hole

Supplier Device Package:

Radial, Vertical Cylinder

Height - Seated (Max):

0.866" (22.00mm)

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

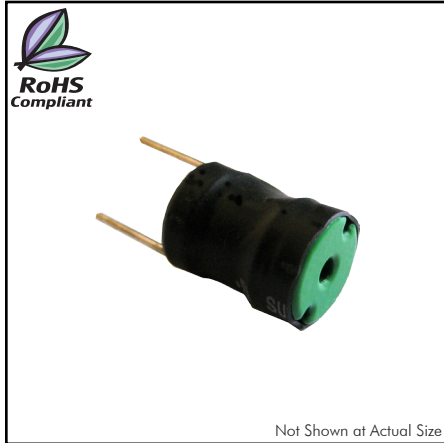
REACH info available upon request

Moisture Sensitivity Level (MSL):

Vendor Undefined

# Drum Cores - Radial Leaded

## CTDR1F Series From 1.0 $\mu$ H to 560 $\mu$ H



### SPECIFICATIONS

Part number indicate available tolerance.  
K =  $\pm 10\%$ , M =  $\pm 20\%$

Part Number	Inductance ( $\mu$ H)	L Test Freq. (kHz)	DCR Max. ( $\Omega$ )	IDC Max. (A)
CTDR1F-1R0M	1.0	1.0	.003	9.0
CTDR1F-1R2M	1.2	1.0	.003	9.0
CTDR1F-1R5M	1.5	1.0	.004	9.0
CTDR1F-1R8M	1.8	1.0	.004	9.0
CTDR1F-2R2M	2.2	1.0	.005	9.0
CTDR1F-2R7M	2.7	1.0	.005	9.0
CTDR1F-3R3M	3.3	1.0	.005	9.0
CTDR1F-3R9M	3.9	1.0	.006	9.0
CTDR1F-4R7M	4.7	1.0	.007	9.0
CTDR1F-5R6M	5.6	1.0	.007	9.0
CTDR1F-6R8M	6.8	1.0	.008	9.0
CTDR1F-8R2M	8.2	1.0	.009	9.0
CTDR1F-100M	10	1.0	.010	9.0
CTDR1F-120K	12	1.0	.011	9.0
CTDR1F-150K	15	1.0	.015	7.2
CTDR1F-180K	18	1.0	.016	7.2
CTDR1F-220K	22	1.0	.025	5.5
CTDR1F-270K	27	1.0	.030	4.5
CTDR1F-330K	33	1.0	.040	4.0
CTDR1F-390K	39	1.0	.046	4.0
CTDR1F-470K	47	1.0	.062	2.8
CTDR1F-560K	56	1.0	.069	2.8
CTDR1F-680K	68	1.0	.077	2.8
CTDR1F-820K	82	1.0	.083	2.8
CTDR1F-101K	100	1.0	.095	2.8
CTDR1F-121K	120	1.0	.127	2.0
CTDR1F-151K	150	1.0	.181	1.6
CTDR1F-181K	180	1.0	.217	1.6
CTDR1F-221K	220	1.0	.240	1.6
CTDR1F-271K	270	1.0	.300	1.6
CTDR1F-331K	330	1.0	.336	1.3
CTDR1F-391K	390	1.0	.460	1.0
CTDR1F-471K	470	1.0	.636	0.8
CTDR1F-561K	560	1.0	.696	0.8

### CHARACTERISTICS

**Description:** Radial leaded drum core inductor

**Applications:** Used in switching regulators, power amplifiers, power supplies, DCR and Triac controls, speaker crossover networks, RFI suppression and filters

**Operating Temperature:** -25°C to +85°C

**Temperature Rise:** 50°C Max. at IDC

**IDC:** Current at which inductance drops 10% Max.

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

**Testing:** Inductance is tested on a HP4284A at 1.0kHz, 1V

**Packaging:** Bulk pack

**Sleeving:** Coils finished with UL-VW-1 sleeving

**Mounting:** Center hole furnished for mechanical mounting

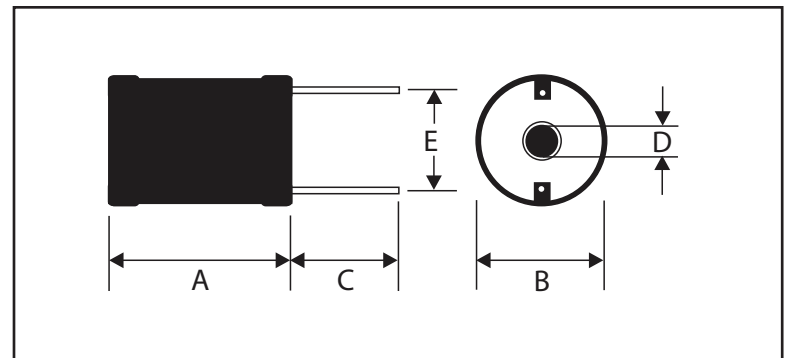
**Miscellaneous:** **RoHS Compliant.** Non-standard tolerances and other values available

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

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

### PHYSICAL DIMENSIONS

Size	A	B	C	D	E
	Max.	Max.		Typ.	Typ.
mm	22.0	17.0	15 $\pm$ 2	3.0	12
inches	0.87	0.67	0.59 $\pm$ 0.08	0.12	0.47



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