

CTGS43F-2R2M Datasheet

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DiGi Electronics Part Number	CTGS43F-2R2M-DG
Manufacturer	Central Technologies
Manufacturer Product Number	CTGS43F-2R2M
Description	2.2UH SMD UNSHLD POWER INDUCTOR
Detailed Description	2.2 μ H Unshielded Wirewound Inductor 47mOhm Max Nonstandard

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Purchase and inquiry

Manufacturer Product Number:

CTGS43F-2R2M

Series:

CTGS43F

Type:

Wirewound

Inductance:

2.2 μ H

Current - Saturation (Isat):

2.6A

DC Resistance (DCR):

47mOhm Max

Frequency - Self Resonant:

-

Operating Temperature:

-40°C ~ 100°C

Features:

-

Package / Case:

Nonstandard

Size / Dimension:

0.177" L x 0.157" W (4.50mm x 4.00mm)

Manufacturer:

Central Technologies

Product Status:

Active

Material - Core:

-

Tolerance:

\pm 20%

Shielding:

Unshielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

7.96 MHz

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.138" (3.50mm)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH info available upon request

Moisture Sensitivity Level (MSL):

Vendor Undefined

Power Inductors - Unshielded

CTGS43F Series

From 1.0 μH to 68 μH

ENGINEERING KIT #7



CHARACTERISTICS

Description: SMD power inductor.

Applications: Power supplies for OA equipment, LCD televisions, PC notebooks, portable communication equipment, DC/DC converters.

Operating Temperature: -40°C to $+100^{\circ}\text{C}$

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

Testing: Inductance is tested on an HP4285A at specified frequency.

Packaging: Tape & Reel.

Marking: Marked with inductance code.

Rated DC: The value of current when the inductance is 10% lower than its initial value at 0 Adc or D.C. current when at $\Delta T = 40^{\circ}\text{C}$ whichever is lower.

Miscellaneous: RoHS Compliant.

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

Samples available. See website for ordering information.

SPECIFICATIONS

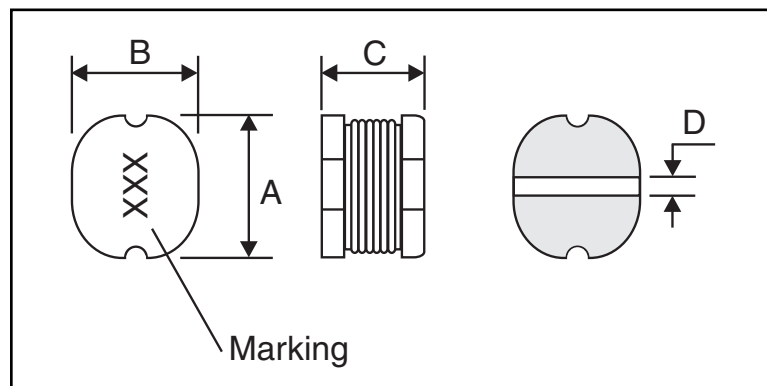
Parts are marked to indicate tolerance available.

K = $\pm 10\%$, M = $\pm 20\%$

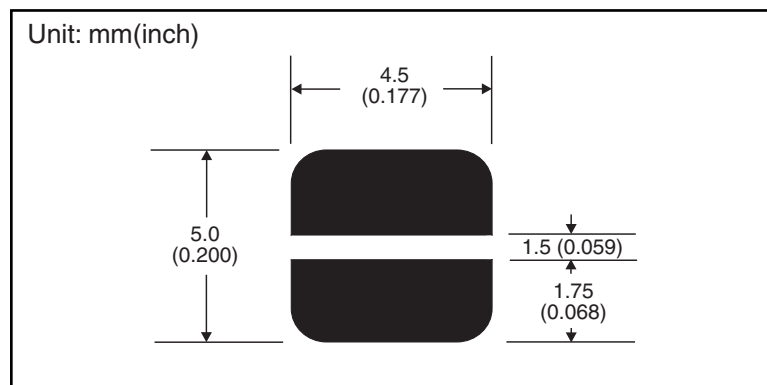
Part Number	Inductance (μH)	L Test Freq. (MHz)	DCR Max. (Ω)	Rated DC (A)
CTGS43F-1R0M	1.0	7.96	0.033	3.80
CTGS43F-1R4M	1.4	7.96	0.038	3.30
CTGS43F-1R8M	1.8	7.96	0.042	2.91
CTGS43F-2R2M	2.2	7.96	0.047	2.60
CTGS43F-2R7M	2.7	7.96	0.052	2.43
CTGS43F-3R3M	3.3	7.96	0.058	2.15
CTGS43F-3R9M	3.9	7.96	0.076	1.98
CTGS43F-4R7M	4.7	7.96	0.094	1.70
CTGS43F-5R6M	5.6	7.96	0.101	1.60
CTGS43F-6R8M	6.8	7.96	0.117	1.41
CTGS43F-8R2M	8.2	7.96	0.132	1.26
CTGS43F-100M	10	2.52	0.182	1.15
CTGS43F-120M	12	2.52	0.210	1.05
CTGS43F-150M	15	2.52	0.235	0.92
CTGS43F-180M	18	2.52	0.338	0.84
CTGS43F-220M	22	2.52	0.378	0.76
CTGS43F-270M	27	2.52	0.522	0.71
CTGS43F-330K	33	2.52	0.540	0.64
CTGS43F-390K	39	2.52	0.587	0.59
CTGS43F-470K	47	2.52	0.844	0.54
CTGS43F-560K	56	2.52	0.937	0.50
CTGS43F-680K	68	2.52	1.117	0.46

PHYSICAL DIMENSIONS

Size	A	B	C	D Typ.
mm	4.5 \pm 0.3	4.0 \pm 0.3	3.2 \pm 0.3	1.2
inches	0.18 \pm 0.012	0.16 \pm 0.012	0.13 \pm 0.012	0.05



PAD LAYOUT



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