

CTCVCF-102J Datasheet

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DiGi Electronics Part Number	CTCVCF-102J-DG
Manufacturer	Central Technologies
Manufacturer Product Number	CTCVCF-102J
Description	AXIAL LEAD CLEAR POWER INDUCTOR
Detailed Description	1 mH Unshielded Inductor 400 mA 4.20hm Max Axial

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



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Purchase and inquiry

Manufacturer Product Number:

CTCVCF-102J

Series:

CTCVCF

Type:

-

Inductance:

1 mH

Current Rating (Amps):

400 mA

Shielding:

Unshielded

Q @ Freq:

70 @ 252kHz

Ratings:

-

Inductance Frequency - Test:

100 kHz

Mounting Type:

Through Hole

Supplier Device Package:

Axial

Height - Seated (Max):

-

Manufacturer:

Central Technologies

Product Status:

Active

Material - Core:

-

Tolerance:

±5%

Current - Saturation (Isat):

490mA

DC Resistance (DCR):

4.2Ohm Max

Frequency - Self Resonant:

720kHz

Operating Temperature:

-55°C ~ 125°C

Features:

-

Package / Case:

Axial

Size / Dimension:

0.236" Dia x 0.630" L (6.00mm x 16.00mm)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH info available upon request

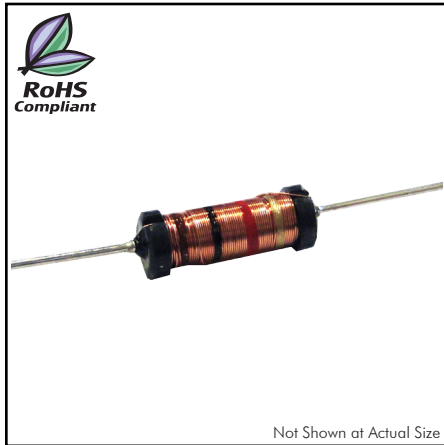
Moisture Sensitivity Level (MSL):

Vendor Undefined

Power Coated Inductors - Axial

CTCVCF Series

From 10 μ H to 100,000 μ H



SPECIFICATIONS

Please specify inductance tolerance when ordering.
CTCVCF-100_ ← J = $\pm 5\%$, K = $\pm 10\%$, M = $\pm 20\%$

Part Number	Inductance (μ H)	Test Freq. (kHz)	Q Min.	Test Freq. Q (kHz)	DCR Max. (Ω)	SRF Min. (MHz)	Rated DC Current	
							IRATE Max. (mA)	ISAT Max. (mA)
CTCVCF-100_	10	1000	55	2520	0.09	38	2900	4600
CTCVCF-120_	12	100	55	2520	0.13	36	2250	3800
CTCVCF-330_	33	100	35	2520	0.16	5.2	1980	2550
CTCVCF-470_	47	100	30	2520	0.18	4.8	1800	2100
CTCVCF-680_	68	100	20	2520	0.25	3.8	1620	1790
CTCVCF-101_	100	100	40	796	0.62	2.5	1060	1490
CTCVCF-151_	150	100	35	796	0.80	2.0	960	1210
CTCVCF-221_	220	100	35	796	1.2	1.60	690	900
CTCVCF-331_	330	100	25	796	1.4	1.40	630	735
CTCVCF-391_	390	100	25	796	1.6	1.30	590	675
CTCVCF-471_	470	100	20	796	1.8	1.20	550	630
CTCVCF-561_	560	100	15	796	2.3	1.06	525	610
CTCVCF-681_	680	100	15	796	2.6	0.92	500	590
CTCVCF-821_	820	100	70	252	4.2	0.72	448	550
CTCVCF-102_	1000	100	70	252	4.2	0.72	400	490
CTCVCF-122_	1200	100	70	252	5.5	0.68	350	448
CTCVCF-152_	1500	100	70	252	6.0	0.65	320	400
CTCVCF-182_	1800	100	70	252	6.0	0.65	300	410
CTCVCF-222_	2200	100	65	252	10	0.50	250	340
CTCVCF-272_	2700	100	50	252	12	0.42	243	298
CTCVCF-332_	3300	100	50	252	12	0.42	220	270
CTCVCF-392_	3900	100	30	252	18	0.29	200	245
CTCVCF-472_	4700	100	30	252	18	0.31	200	220
CTCVCF-562_	5600	10	30	252	23	0.30	160	200
CTCVCF-682_	6800	10	25	252	26	0.29	150	180
CTCVCF-822_	8200	10	60	79.6	35	0.22	135	165
CTCVCF-103_	10000	10	60	79.6	40	0.20	120	150
CTCVCF-123_	12000	10	55	79.6	63	0.17	112	134
CTCVCF-153_	15000	10	55	79.6	63	0.17	100	120
CTCVCF-183_	18000	10	50	79.6	90	0.16	86	110
CTCVCF-223_	22000	10	50	79.6	100	0.15	82	100
CTCVCF-273_	27000	10	50	79.6	130	0.14	75	95
CTCVCF-333_	33000	10	50	79.6	130	0.14	67	85
CTCVCF-473_	47000	10	30	25.2	200	0.09	53	73
CTCVCF-683_	68000	10	25	25.2	270	0.08	49	59
CTCVCF-104_	100000	10	20	25.2	490	0.06	34	45

CHARACTERISTICS

Description: Axial leaded clear varnish coated inductor

Applications: Communications, electronic household appliances, entertainment electronics, and lighting devices

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

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

Testing: Inductance and Q are tested on HP4284A at specified frequency. Inductance measured at 1V with no DC current

Current Rating: At 85°C ambient -40°C rise

Power Dissipation: At 85°C -.55 watts

Marking: EIA 4 band color code

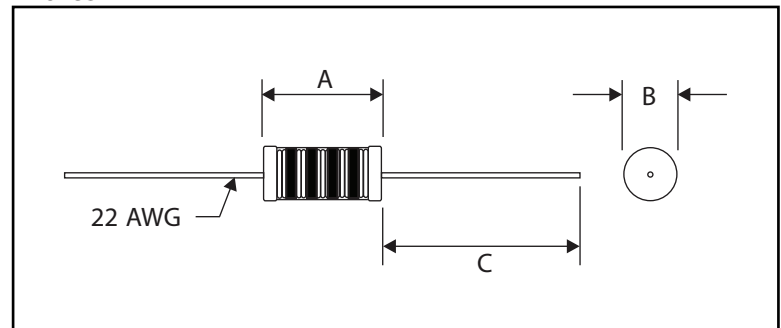
Packaging: Tape & Reel, 1000pcs per reel

Miscellaneous: RoHS Compliant

Samples available. See website for ordering information.

PHYSICAL DIMENSIONS

Size	A	B	C
	Max.	Max.	Min.
mm	16.0	6.0	25.00
inches	0.630	0.236	0.984



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