

CT0402CSF-12NG Datasheet

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DiGi Electronics Part Number	CT0402CSF-12NG-DG
Manufacturer	Central Technologies
Manufacturer Product Number	CT0402CSF-12NG
Description	SMD CER CORE WIRE-WOUND INDUCTOR
Detailed Description	12 nH Multilayer Inductor 180mOhm

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Purchase and inquiry

Manufacturer Product Number:

CT0402CSF-12NG

Series:

ct0402csf

Type:

Multilayer

Tolerance:

±2%

Frequency - Self Resonant:

3.6GHz

Mounting Type:

Surface Mount

Manufacturer:

Central Technologies

Product Status:

Active

Inductance:

12 nH

DC Resistance (DCR):

180mOhm

Operating Temperature:

-40°C ~ 125°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

CT0402CSF Series

From 1.0 nH to 120 nH

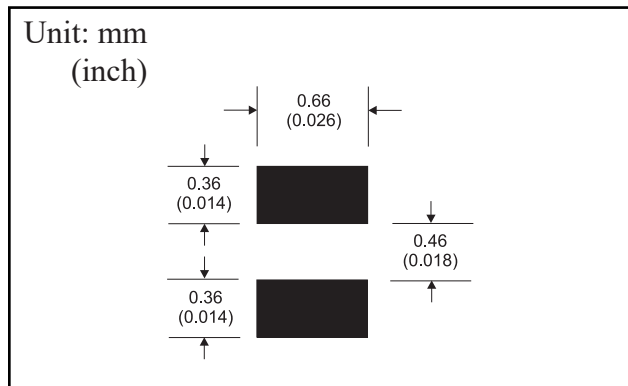
ENGINEERING KIT #5F



CHARACTERISTICS

Description: SMD ceramic core wire-wound chip inductor.
Applications: Telecommunication equipment, mobile phones, small size pagers, computers, printers and relevant equipment. Also, audio & video applications, the automotive electronics industry and high frequency applications.
Operating Temperature: -40°C to +125°C
Inductance Tolerance: ±2%, ±3%, ±5%, ±10%
Testing: Inductance and Q are tested on an HP4287A at 250MHz.
Packaging: Tape & Reel.
Marking: Reels are marked with inductance code and tolerance.
Additional Information: Additional electrical & physical information available upon request.
Samples available. See website for ordering information.

PAD LAYOUT



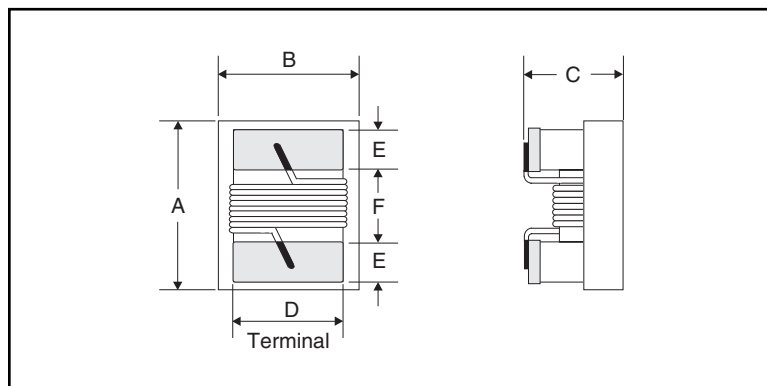
SPECIFICATIONS

Please specify tolerance code when ordering.
 CT0402CSF-3N6 ← G = ±2%, H = ±3%, J = ±5%, K = ±10%
 * J or K only

Part Number	Inductance (nH)	L Test Freq. (MHz)	Q Fact. Min.	Q Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. (Ω)	Irms Max. (mA)
CT0402CSF-1N0K	1.0	250	16	250	12700	.045	1360
CT0402CSF-1N9K	1.9	250	16	250	11300	.07	1040
CT0402CSF-2N0K	2.0	250	16	250	11100	.07	1040
CT0402CSF-2N2K	2.2	250	19	250	10800	.07	960
CT0402CSF-2N4*	2.4	250	15	250	10500	.07	790
CT0402CSF-2N7*	2.7	250	16	250	10400	.12	640
CT0402CSF-3N3*	3.3	250	19	250	7000	.066	840
CT0402CSF-3N6*	3.6	250	19	250	6800	.066	840
CT0402CSF-3N9*	3.9	250	19	250	6000	.066	840
CT0402CSF-4N3*	4.3	250	18	250	6000	.091	700
CT0402CSF-4N7*	4.7	250	15	250	4770	.13	640
CT0402CSF-5N1*	5.1	250	20	250	4800	.083	800
CT0402CSF-5N6*	5.6	250	20	250	4800	.083	760
CT0402CSF-6N2*	6.2	250	20	250	4800	.083	760
CT0402CSF-6N8*	6.8	250	20	250	4800	.083	680
CT0402CSF-7N5*	7.5	250	22	250	4800	.10	680
CT0402CSF-8N2*	8.2	250	22	250	4400	.10	680
CT0402CSF-8N7*	8.7	250	18	250	4100	.20	480
CT0402CSF-9N0*	9.0	250	22	250	4160	.10	680
CT0402CSF-9N5*	9.5	250	18	250	4000	.20	480
CT0402CSF-10N_	10	250	21	250	3900	.20	480
CT0402CSF-11N_	11	250	24	250	3680	.12	640
CT0402CSF-12N_	12	250	24	250	3600	.12	640
CT0402CSF-13N_	13	250	24	250	3450	.21	440
CT0402CSF-15N_	15	250	24	250	3280	.17	560
CT0402CSF-16N_	16	250	24	250	3100	.22	560
CT0402CSF-18N_	18	250	25	250	3100	.23	420
CT0402CSF-19N_	19	250	24	250	3040	.20	480
CT0402CSF-20N_	20	250	25	250	3000	.25	420
CT0402CSF-22N_	22	250	25	250	2800	.30	400
CT0402CSF-23N_	23	250	22	250	2720	.30	400
CT0402CSF-24N_	24	250	25	250	2700	.30	400
CT0402CSF-27N_	27	250	24	250	2480	.30	400
CT0402CSF-30N_	30	250	25	250	2350	.35	400
CT0402CSF-33N_	33	250	24	250	2350	.41	400
CT0402CSF-36N_	36	250	24	250	2320	.44	320
CT0402CSF-39N_	39	250	25	250	2100	.55	200
CT0402CSF-40N_	40	250	24	250	2240	.65	320
CT0402CSF-43N_	43	250	25	250	2030	.81	100
CT0402CSF-47N_	47	250	20	250	2100	.83	150
CT0402CSF-51N_	51	250	25	250	1750	.82	100
CT0402CSF-56N_	56	250	22	250	1760	.97	100
CT0402CSF-68N_	68	250	22	250	1620	1.12	100
CT0402CSF-82N_*	82	250	20	250	1260	1.55	50
CT0402CSF-R10_*	100	250	20	250	1160	2.00	30
CT0402CSF-R12_*	120	250	20	250	1800	2.66	50

PHYSICAL DIMENSIONS

Size	A	B	C	D	E	F
mm	1.0±0.1	0.68±0.1	0.55±0.05	0.55±0.05	0.2±0.05	0.6
inches	0.04±0.004	0.03±0.004	0.02±0.001	0.02±0.001	0.007±0.001	0.02



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