

## CTC1F Series

From 0.10µH to 1,000µH



Not Shown at Actual Size

### CHARACTERISTICS

- Description:** Axial leaded conformal coated inductor
- Applications:** Used in less harsh environments. Ideal for less critical RFL/EMI applications
- Operating Temperature:** -55°C to +125°C
- Inductance Tolerance:** ±5%, ±10%, ±20%
- Testing:** Inductance and Q are tested on an HP4285A at specified frequency
- Packaging:** Bulk pack, 1,000 parts per bag, Tape & Reel, 5,000 parts per reel
- Marking:** Parts are EIA color banded which indicates inductance value and tolerance.
- Material:** Epoxy resin over coil. Magnetic core (ferrite or iron) except for values .10µH to 1.0µH (phenolic)
- Miscellaneous:** **RoHS Compliant.** Other values available.
- Additional Information:** Additional electrical & physical information available upon request.
- Samples available. See website for ordering information.**

### SPECIFICATIONS

Please specify inductance tolerance when ordering.  
 CTC1F-R10 ← J = ±5%, K = ±10%, M = ±20%

Part Number	Inductance (µH)	L Test Freq. (MHz)	Q Factor Min.	Q Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. (Ω)	Rated DC (mA)
CTC1F-R10_	.10	25	40	25	680	.08	1380
CTC1F-R12_	.12	25	40	25	640	.09	1300
CTC1F-R15_	.15	25	38	25	600	.10	1230
CTC1F-R18_	.18	25	38	25	550	.12	1120
CTC1F-R22_	.22	25	33	25	510	.14	1040
CTC1F-R27_	.27	25	33	25	430	.16	975
CTC1F-R33_	.33	25	30	25	410	.22	830
CTC1F-R39_	.39	25	30	25	365	.30	710
CTC1F-R47_	.47	25	30	25	330	.35	660
CTC1F-R56_	.56	25	30	25	300	.50	550
CTC1F-R68_	.68	25	28	25	275	.60	500
CTC1F-R82_	.82	25	28	25	250	.85	420
CTC1F-1R0_	1.0	25	25	25	230	1.0	390
CTC1F-1R2_	1.2	7.9	25	7.9	150	.18	620
CTC1F-1R5_	1.5	7.9	28	7.9	140	.22	560
CTC1F-1R8_	1.8	7.9	30	7.9	125	.30	480
CTC1F-2R2_	2.2	7.9	30	7.9	115	.40	415
CTC1F-2R7_	2.7	7.9	37	7.9	100	.55	355
CTC1F-3R3_	3.3	7.9	45	7.9	90	.90	285
CTC1F-3R9_	3.9	7.9	45	7.9	80	1.0	263
CTC1F-4R7_	4.7	7.9	45	7.9	75	1.2	239
CTC1F-5R6_	5.6	7.9	50	7.9	65	1.8	195
CTC1F-6R8_	6.8	7.9	50	7.9	60	2.0	185
CTC1F-8R2_	8.2	7.9	55	7.9	55	2.7	160
CTC1F-100_	10	7.9	55	7.9	50	3.3	144
CTC1F-120_	12	2.5	45	2.5	40	2.7	144
CTC1F-150_	15	2.5	45	2.5	35	2.8	144
CTC1F-180_	18	2.5	50	2.5	30	3.1	144
CTC1F-220_	22	2.5	50	2.5	25	3.3	144
CTC1F-270_	27	2.5	50	2.5	20	3.5	140
CTC1F-330_	33	2.5	45	2.5	24	3.4	130
CTC1F-390_	39	2.5	45	2.5	22	3.6	125
CTC1F-470_	47	2.5	45	2.5	20	4.5	110
CTC1F-560_	56	2.5	45	2.5	18	5.7	100
CTC1F-680_	68	2.5	50	2.5	15	6.7	92
CTC1F-820_	82	2.5	50	2.5	14	7.3	88
CTC1F-101_	100	2.5	50	2.5	13	8.0	84
CTC1F-121_	120	0.79	30	0.79	12	13	68
CTC1F-151_	150	0.79	30	0.79	11	15	61
CTC1F-181_	180	0.79	30	0.79	10	17	57
CTC1F-221_	220	0.79	30	0.79	9.0	21	52
CTC1F-271_	270	0.79	30	0.79	8.0	25	47
CTC1F-331_	330	0.79	30	0.79	7.0	28	45
CTC1F-391_	390	0.79	30	0.79	6.5	35	40
CTC1F-471_	470	0.79	30	0.79	6.0	42	38
CTC1F-561_	560	0.79	30	0.79	5.0	46	35
CTC1F-681_	680	0.79	30	0.79	4.2	60	30
CTC1F-821_	820	0.79	30	0.79	3.8	65	28
CTC1F-102_	1000	0.79	30	0.79	3.4	72	28

### PHYSICAL DIMENSIONS

Size	A Max.	B	C Typ.	24 AWG Nom.
mm	6.22	2.3±0.25	26.7	0.5110
inches	0.245	0.09±0.01	1.05	0.02010

