

## CTC3F Series

From .10 $\mu$ H to 1,000 $\mu$ H



### CHARACTERISTICS

**Description:** Axial leaded conformal coated inductor

**Applications:** Used in less harsh environments. Ideal for less critical RFL/EMI applications.

**Operating Temperature:** -40°C to +125°C

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

**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 code and tolerance

**Material:** Magnetic core treated with epoxy resin for protection and longer reliability

**Miscellaneous:** **RoHS Compliant.**

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

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

### SPECIFICATIONS

Please specify inductance tolerance when ordering.

CTC3F-R10  $\leftarrow$  J =  $\pm 5\%$ , K =  $\pm 10\%$ , M =  $\pm 20\%$

Part Number	Inductance ( $\mu$ H)	L Test Freq. (MHz)	Q Factor Min.	Q Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. ( $\Omega$ )	Rated DC (mA)
CTC3F-R10_	.10	25.2	25	25.2	320	.15	1750
CTC3F-R12_	.12	25.2	25	25.2	320	.16	1650
CTC3F-R15_	.15	25.2	25	25.2	320	.17	1560
CTC3F-R18_	.18	25.2	25	25.2	320	.19	1480
CTC3F-R22_	.22	25.2	25	25.2	300	.21	1400
CTC3F-R27_	.27	25.2	25	25.2	300	.24	1320
CTC3F-R33_	.33	25.2	25	25.2	300	.28	1280
CTC3F-R39_	.39	25.2	25	25.2	280	.32	1200
CTC3F-R47_	.47	25.2	25	25.2	250	.36	1150
CTC3F-R56_	.56	25.2	25	25.2	230	.41	1100
CTC3F-R68_	.68	25.2	25	25.2	210	.47	1030
CTC3F-R82_	.82	25.2	45	25.2	172	.24	980
CTC3F-1R0_	1.0	25.2	45	25.2	140	.24	920
CTC3F-1R2_	1.2	7.96	50	7.96	140	.27	880
CTC3F-1R5_	1.5	7.96	50	7.96	131	.30	830
CTC3F-1R8_	1.8	7.96	55	7.96	121	.32	790
CTC3F-2R2_	2.2	7.96	55	7.96	110	.35	750
CTC3F-2R7_	2.7	7.96	60	7.96	100	.35	720
CTC3F-3R3_	3.3	7.96	65	7.96	94	.35	670
CTC3F-3R9_	3.9	7.96	65	7.96	86	.37	640
CTC3F-4R7_	4.7	7.96	70	7.96	80	.39	620
CTC3F-5R6_	5.6	7.96	70	7.96	74	.43	590
CTC3F-6R8_	6.8	7.96	75	7.96	68	.48	550
CTC3F-8R2_	8.2	7.96	70	7.96	53	.52	530
CTC3F-100_	10	7.96	70	7.96	45	.58	500
CTC3F-120_	12	2.52	70	2.52	34	.63	480
CTC3F-150_	15	2.52	70	2.52	20	.72	460
CTC3F-180_	18	2.52	65	2.52	14	.77	430
CTC3F-220_	22	2.52	40	2.52	9.9	.84	410
CTC3F-270_	27	2.52	55	2.52	7.6	.94	390
CTC3F-330_	33	2.52	55	2.52	6.3	1.0	370
CTC3F-390_	39	2.52	50	2.52	8.3	1.1	350
CTC3F-470_	47	2.52	45	2.52	6.3	1.2	340
CTC3F-560_	56	2.52	40	2.52	6.2	1.3	320
CTC3F-680_	68	2.52	40	2.52	5.7	1.5	306
CTC3F-820_	82	2.52	35	2.52	5.3	1.8	290
CTC3F-101_	100	2.52	30	2.52	4.8	1.8	275
CTC3F-121_	120	0.796	70	0.796	3.8	3.7	185
CTC3F-151_	150	0.796	70	0.796	3.5	4.2	175
CTC3F-181_	180	0.796	70	0.796	3.3	4.6	165
CTC3F-221_	220	0.796	70	0.796	3.0	5.1	155
CTC3F-271_	270	0.796	65	0.796	2.8	5.8	146
CTC3F-331_	330	0.796	65	0.796	2.8	6.4	137
CTC3F-391_	390	0.796	65	0.796	2.4	7.0	133
CTC3F-471_	470	0.796	60	0.796	2.2	7.7	126
CTC3F-561_	560	0.796	60	0.796	2.1	8.5	120
CTC3F-681_	680	0.796	55	0.796	1.9	9.4	113
CTC3F-821_	820	0.796	55	0.796	1.8	12	100
CTC3F-102_	1000	0.796	50	0.796	1.4	17	100

### PHYSICAL DIMENSIONS

Size	A Max.	B Max.	C Min.	22 AWG Nom.
mm	9.53	4.06	26.7	0.643
inches	0.375	0.16	1.05	0.02535

