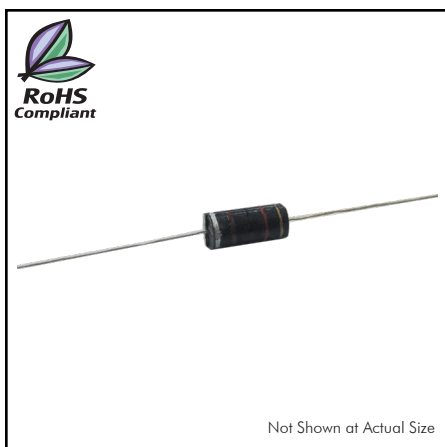


CTM1F Series

From .022 μ H to 1,000 μ H

ENGINEERING KIT #1F



CHARACTERISTICS

Description: Axial leaded molded inductor

Applications: Used for various kinds of OSC and TRAP coils.

Ideal for various RF applications

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

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

Testing: Inductance and Q are tested on an HP4285A or HP4286A at specified frequency

Packaging: Bulk pack or Tape & Reel, 5,000 parts per reel

Marking: Five band EIA color code indicating inductance code and tolerance

Material: Molded epoxy resin over coil

Core: Magnetic core (ferrite or iron) except for values 0.022 μ H to 1.0 μ H (phenolic)

Miscellaneous: RoHS Compliant

Samples available. See website for ordering information.

SPECIFICATIONS

Please specify inductance tolerance code when ordering.

CTM1F-R027_ $\leftarrow J = \pm 5\%$, $K = \pm 10\%$, $M = \pm 20\%$

Part Number	Inductance (μ H)	L Test Freq. (MHz)	Q Fact. Min.	Q Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. (Ω)	Rated DC (mA)
CTM1F-R022M	.022	50	50	50	900	0.025	2400
CTM1F-R027_	.027	25	40	25	875	0.030	2200
CTM1F-R033_	.033	25	40	25	850	0.035	2000
CTM1F-R039_	.039	25	40	25	825	0.040	1900
CTM1F-R047_	.047	25	40	25	800	0.045	1800
CTM1F-R056_	.056	25	40	25	775	0.050	1700
CTM1F-R068_	.068	25	40	25	750	0.060	1500
CTM1F-R082_	.082	25	40	25	725	0.070	1400
CTM1F-R10_	.10	25	40	25	680	0.08	1350
CTM1F-R12_	.12	25	40	25	640	0.09	1270
CTM1F-R15_	.15	25	38	25	600	0.10	1200
CTM1F-R18_	.18	25	35	25	550	0.12	1105
CTM1F-R22_	.22	25	33	25	510	0.14	1025
CTM1F-R27_	.27	25	33	25	430	0.16	960
CTM1F-R33_	.33	25	30	25	410	0.22	815
CTM1F-R39_	.39	25	30	25	365	0.30	700
CTM1F-R47_	.47	25	30	25	330	0.35	650
CTM1F-R56_	.56	25	30	25	300	0.50	545
CTM1F-R68_	.68	25	28	25	275	0.60	495
CTM1F-R82_	.82	25	28	25	250	0.85	415
CTM1F-1R0_	1.0	25	25	25	230	1.00	385
CTM1F-1R2_	1.2	7.9	25	7.9	150	0.18	825
CTM1F-1R5_	1.5	7.9	28	7.9	140	0.22	745
CTM1F-1R8_	1.8	7.9	30	7.9	125	0.30	640
CTM1F-2R2_	2.2	7.9	30	7.9	115	0.40	550
CTM1F-2R7_	2.7	7.9	37	7.9	100	0.55	495
CTM1F-3R3_	3.3	7.9	45	7.9	90	0.85	380
CTM1F-3R9_	3.9	7.9	45	7.9	80	1.00	350
CTM1F-4R7_	4.7	7.9	45	7.9	75	1.20	320
CTM1F-5R6_	5.6	7.9	50	7.9	65	1.80	260
CTM1F-6R8_	6.8	7.9	50	7.9	60	2.00	245
CTM1F-8R2_	8.2	7.9	55	7.9	55	2.70	210
CTM1F-100_	10	7.9	55	7.9	50	3.70	180
CTM1F-120_	12	2.5	45	2.5	40	2.70	210
CTM1F-150_	15	2.5	40	2.5	35	2.80	205
CTM1F-180_	18	2.5	50	2.5	30	3.10	195
CTM1F-220_	22	2.5	50	2.5	25	3.30	190
CTM1F-270_	27	2.5	50	2.5	20	3.50	185
CTM1F-330_	33	2.5	45	2.5	24	3.40	187
CTM1F-390_	39	2.5	45	2.5	22	3.60	180
CTM1F-470_	47	2.5	45	2.5	20	4.50	165
CTM1F-560_	56	2.5	45	2.5	18	5.70	145
CTM1F-680_	68	2.5	50	2.5	15	6.70	135
CTM1F-820_	82	2.5	50	2.5	14	7.30	130
CTM1F-101_	100	2.5	50	2.5	13	8.00	125
CTM1F-121_	120	.79	30	.79	12	13.0	97
CTM1F-151_	150	.79	30	.79	11	15.0	85
CTM1F-181_	180	.79	30	.79	10	17.0	79
CTM1F-221_	220	.79	30	.79	9.0	21.0	73
CTM1F-271_	270	.79	30	.79	8.0	25.0	65
CTM1F-331_	330	.79	30	.79	7.0	28.0	62
CTM1F-391_	390	.79	30	.79	6.5	35.0	55
CTM1F-471_	470	.79	30	.79	6.0	42.0	50
CTM1F-561_	560	.79	30	.79	5.0	46.0	48
CTM1F-681_	680	.79	30	.79	4.0	60.0	42
CTM1F-821_	820	.79	30	.79	3.8	65.0	40
CTM1F-102_	1000	.79	30	.79	3.4	72.0	38

PHYSICAL DIMENSIONS

Size	A	B	C	24 AWG
			Typ.	Nom.
mm	6.35 $\pm$ 0.25	2.41 $\pm$ 0.25	29.2	0.511
inches	0.25 $\pm$ 0.01	0.095 $\pm$ 0.01	1.15	0.02

