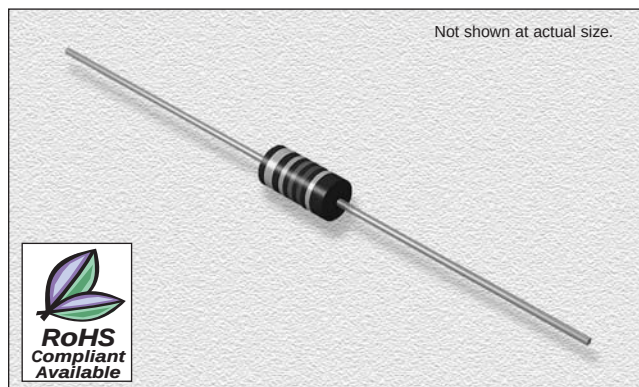


CTM1 Series

From .022 μH to 1,000 μH

ENGINEERING KIT #1



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 +105°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 μH to 1.0 μH (phenolic)

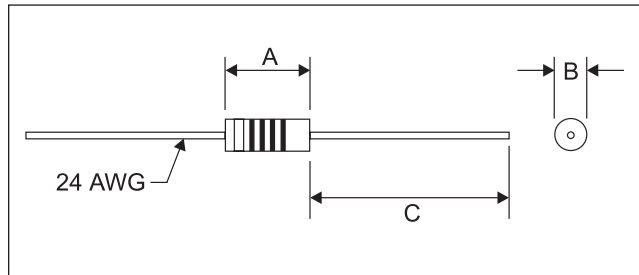
Miscellaneous: RoHS Compliant available.

Additional Information: Additional electrical & physical information available upon request

Samples available. See website for ordering information.

PHYSICAL DIMENSIONS

Size	A	B	C Typ.	24 AWG Nom.
mm	6.35 $\pm$ 0.25	2.41 $\pm$ 0.25	26.7	0.511
inches	0.25 $\pm$ 0.01	0.1 $\pm$ 0.01	1.05	0.02



SPECIFICATIONS

Please specify tolerance code when ordering.
CTM1-R027_ $\leftarrow$ J = $\pm 5\%$, K = $\pm 10\%$, M = $\pm 20\%$
CTM1E Please specify "F" for RoHS compliant

Part Number	Inductance (μH)	L Test Freq. (MHz)	Q Factor Min.	Q Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. (Ω)	Rated DC (mA)
CTM1_-R022M	.022	50	50	50	900	.02	2400
CTM1_-R027	.027	25	40	25	875	.03	2200
CTM1_-R033	.033	25	40	25	850	.03	2000
CTM1_-R039	.039	25	40	25	825	.04	1900
CTM1_-R047	.047	25	40	25	800	.04	1800
CTM1_-R056	.056	25	40	25	775	.05	1700
CTM1_-R068	.068	25	40	25	750	.06	1500
CTM1_-R082	.082	25	40	25	725	.07	1400
CTM1_-R10	.10	25	40	25	680	.08	1350
CTM1_-R12	.12	25	40	25	640	.09	1270
CTM1_-R15	.15	25	38	25	600	.10	1200
CTM1_-R18	.18	25	35	25	550	.12	1105
CTM1_-R22	.22	25	33	25	510	.14	1025
CTM1_-R27	.27	25	33	25	430	.16	960
CTM1_-R33	.33	25	30	25	410	.22	815
CTM1_-R39	.39	25	30	25	365	.30	700
CTM1_-R47	.47	25	30	25	330	.35	650
CTM1_-R56	.56	25	30	25	300	.50	545
CTM1_-R68	.68	25	28	25	275	.60	495
CTM1_-R82	.82	25	28	25	250	.85	415
CTM1_-1R0	1.0	25	25	25	230	1.0	385
CTM1_-1R2	1.2	7.9	25	7.9	150	.18	590
CTM1_-1R5	1.5	7.9	28	7.9	140	.22	535
CTM1_-1R8	1.8	7.9	30	7.9	125	.30	455
CTM1_-2R2	2.2	7.9	30	7.9	115	.40	395
CTM1_-2R7	2.7	7.9	37	7.9	100	.55	355
CTM1_-3R3	3.3	7.9	45	7.9	90	.85	270
CTM1_-3R9	3.9	7.9	45	7.9	80	1.0	250
CTM1_-4R7	4.7	7.9	45	7.9	75	1.2	230
CTM1_-5R6	5.6	7.9	50	7.9	65	1.8	185
CTM1_-6R8	6.8	7.9	50	7.9	60	2.0	175
CTM1_-8R2	8.2	7.9	55	7.9	55	2.7	155
CTM1_-100	10	7.9	55	7.9	50	3.7	130
CTM1_-120	12	2.5	45	2.5	40	2.7	155
CTM1_-150	15	2.5	40	2.5	35	2.8	150
CTM1_-180	18	2.5	50	2.5	30	3.1	145
CTM1_-220	22	2.5	50	2.5	25	3.3	140
CTM1_-270	27	2.5	50	2.5	20	3.5	135
CTM1_-330	33	2.5	45	2.5	24	3.4	130
CTM1_-390	39	2.5	45	2.5	22	3.6	125
CTM1_-470	47	2.5	45	2.5	20	4.5	110
CTM1_-560	56	2.5	45	2.5	18	5.7	100
CTM1_-680	68	2.5	50	2.5	15	6.7	92
CTM1_-820	82	2.5	50	2.5	14	7.3	88
CTM1_-101	100	2.5	50	2.5	13	8.0	84
CTM1_-121	120	.79	30	.79	12	13	66
CTM1_-151	150	.79	30	.79	11	15	61
CTM1_-181	180	.79	30	.79	10	17	57
CTM1_-221	220	.79	30	.79	9.0	21	52
CTM1_-271	270	.79	30	.79	8.0	25	47
CTM1_-331	330	.79	30	.79	7.0	28	45
CTM1_-391	390	.79	30	.79	6.5	35	40
CTM1_-471	470	.79	30	.79	6.0	42	36
CTM1_-561	560	.79	30	.79	5.0	46	35
CTM1_-681	680	.79	30	.79	4.0	60	30
CTM1_-821	820	.79	30	.79	3.8	65	29
CTM1_-102	1000	.79	30	.79	3.4	72	28

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