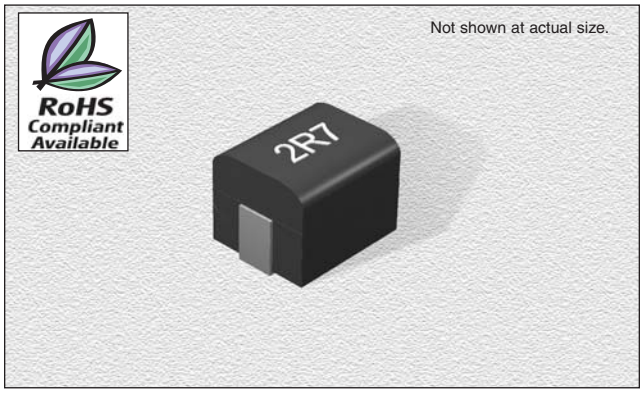
CTMC1812 Series

From .10 µH to 1,000 µH

ENGINEERING KIT #12



CHARACTERISTICS

Description: Ferrite core, wire-wound molded chip inductor
Applications: TV's, VCR's, disk drives, computer peripherals, telecommunication devices and electronic control boards for automobiles
Operating Temperature: -40°C to +100°C
Inductance Tolerance: ±5%, ±10% & ±20%
Testing: Inductance and Q are tested on an HP4285A at specified frequency
Packaging: Tape & Reel
Part Marking: Inductance code or inductance code plus tolerance.
Miscellaneous: RoHS Compliant available.
Additional Information: Additional electrical & physical information available upon request
Samples available. See website for ordering information.

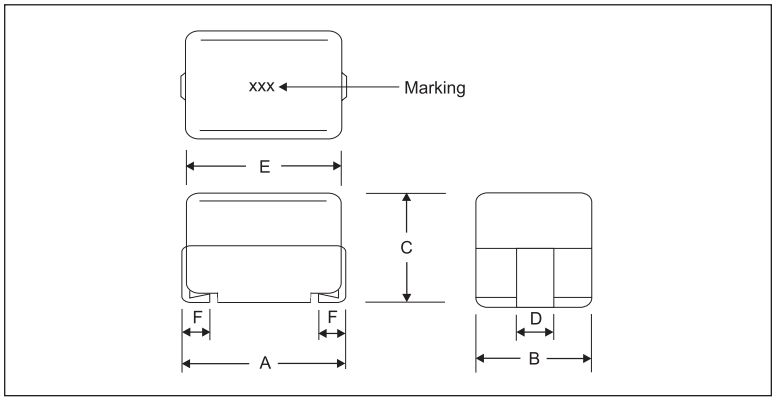
SPECIFICATIONS

Please specify tolerance code when ordering.
CTMC1812-R10_ ← J = ±5%, K = ±10%, M = ±20%
CTMC1812F **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)
CTMC1812_-R10_	.10	25.2	35	25.2	300	.18	800
CTMC1812_-R12_	.12	25.2	35	25.2	280	.20	770
CTMC1812_-R15_	.15	25.2	35	25.2	250	.22	730
CTMC1812_-R18_	.18	25.2	35	25.2	220	.24	700
CTMC1812_-R22_	.22	25.2	40	25.2	200	.25	665
CTMC1812_-R27_	.27	25.2	40	25.2	180	.26	635
CTMC1812_-R33_	.33	25.2	40	25.2	165	.28	605
CTMC1812_-R39_	.39	25.2	40	25.2	150	.30	575
CTMC1812_-R47_	.47	25.2	40	25.2	145	.32	545
CTMC1812_-R56_	.56	25.2	40	25.2	140	.36	520
CTMC1812_-R68_	.68	25.2	40	25.2	135	.40	500
CTMC1812_-R82_	.82	25.2	40	25.2	130	.45	475
CTMC1812_-1R0_	1.0	7.96	50	7.96	100	.50	450
CTMC1812_-1R2_	1.2	7.96	50	7.96	80	.55	430
CTMC1812_-1R5_	1.5	7.96	50	7.96	70	.60	410
CTMC1812_-1R8_	1.8	7.96	50	7.96	60	.65	390
CTMC1812_-2R2_	2.2	7.96	50	7.96	55	.70	380
CTMC1812_-2R7_	2.7	7.96	50	7.96	50	.75	370
CTMC1812_-3R3_	3.3	7.96	50	7.96	45	.80	355
CTMC1812_-3R9_	3.9	7.96	50	7.96	40	.90	330
CTMC1812_-4R7_	4.7	7.96	50	7.96	35	1.0	315
CTMC1812_-5R6_	5.6	7.96	50	7.96	33	1.1	300
CTMC1812_-6R8_	6.8	7.96	50	7.96	27	1.2	285
CTMC1812_-8R2_	8.2	7.96	50	7.96	25	1.4	270
CTMC1812_-100_	10	2.52	50	2.52	20	1.6	250
CTMC1812_-120_	12	2.52	50	2.52	18	2.0	225
CTMC1812_-150_	15	2.52	50	2.52	17	2.5	200
CTMC1812_-180_	18	2.52	50	2.52	15	2.8	190
CTMC1812_-220_	22	2.52	50	2.52	13	3.2	180
CTMC1812_-270_	27	2.52	50	2.52	12	3.6	170
CTMC1812_-330_	33	2.52	50	2.52	11	4.0	160
CTMC1812_-390_	39	2.52	50	2.52	10	4.5	150
CTMC1812_-470_	47	2.52	50	2.52	10	5.0	140
CTMC1812_-560_	56	2.52	50	2.52	9.0	5.5	135
CTMC1812_-680_	68	2.52	50	2.52	9.0	6.0	130
CTMC1812_-820_	82	2.52	50	2.52	8.0	7.0	120
CTMC1812_-101_	100	.796	40	.796	8.0	8.0	110
CTMC1812_-121_	120	.796	40	.796	6.0	8.0	110
CTMC1812_-151_	150	.796	40	.796	5.0	9.0	105
CTMC1812_-181_	180	.796	40	.796	5.0	9.5	102
CTMC1812_-221_	220	.796	40	.796	4.0	10	100
CTMC1812_-271_	270	.796	40	.796	4.0	12	92
CTMC1812_-331_	330	.796	40	.796	3.5	14	85
CTMC1812_-391_	390	.796	40	.796	3.0	18	80
CTMC1812_-471_	470	.796	40	.796	3.0	26	62
CTMC1812_-561_	560	.796	30	.796	3.0	30	50
CTMC1812_-681_	680	.796	30	.796	3.0	30	50
CTMC1812_-821_	820	.796	30	.796	2.5	35	30
CTMC1812_-102_	1000	.252	25	.252	2.5	40	30

PHYSICAL DIMENSIONS

Size	A	B	C	D	E	F
mm	4.5±0.3	3.2±0.2	3.2±0.2	1.2	4.2±0.2	1
inches	0.18±0.012	0.13±0.008	0.13±0.008	0.047	0.17±0.008	0.04



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