

CTMC1812SF Series

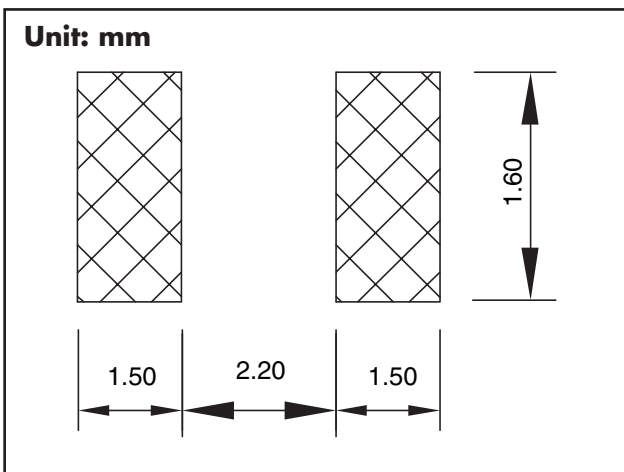
From 0.10µH to 1,000µH



CHARACTERISTICS

- Description:** Ferrite core, wire-wound chip inductor
- Applications:** TV's, mobile phones, disk drives, computer peripherals, telecommunication devices, and electronic control boards for automobiles
- Inductance Tolerance:** ±5%, ±10%, ±20%
- Moisture Sensitivity Level (MSL):** 1
- Operating Temperature:** -40°C to 125°C (Temp. rise included)
- Storage Temperature:** -40°C to 125°C
- Terminal Pull Strength:** 1.5kg min.
- Rated Current:** Current cause inductance drop within 10%
- Resistance to Solder Heat:** 260°C .10 secs.
- Resistance to Solvent:** Per MIL-STD-202F
- Packaging:** Tape & Reel
- Part Marking:** Inductance code or inductance code plus tolerance
- Miscellaneous:** RoHS compliant
- Samples available.** See website for ordering information.

PAD LAYOUT



SPECIFICATIONS

Please specify tolerance code when ordering.
 CTMC1812SF-1R0_ ← J = ±5%, K = ±10%, M = ±20%
 * K or M only

Part Number	Inductance (µH)	L/Q Test Freq. (MHz)	Q Fact. Min.	SRF Typ. (MHz)	DCR Max. (Ω)	Rated DC Max. (mA)
CTMC1812SF-R10_*	0.10	25.2	35	780.0	0.18	800
CTMC1812SF-R12_*	0.12	25.2	35	735.0	0.20	770
CTMC1812SF-R15_*	0.15	25.2	35	615.0	0.22	730
CTMC1812SF-R18_*	0.18	25.2	35	570.0	0.24	700
CTMC1812SF-R22_*	0.22	25.2	40	505.0	0.25	665
CTMC1812SF-R27_*	0.27	25.2	40	450.0	0.26	635
CTMC1812SF-R33_*	0.33	25.2	40	425.0	0.28	605
CTMC1812SF-R39_*	0.39	25.2	40	390.0	0.30	575
CTMC1812SF-R47_*	0.47	25.2	40	350.0	0.32	545
CTMC1812SF-R56_*	0.56	25.2	40	325.0	0.36	520
CTMC1812SF-R68_*	0.68	25.2	40	300.0	0.40	500
CTMC1812SF-R82_*	0.82	25.2	40	275.0	0.45	475
CTMC1812SF-1R0_	1.00	7.96	50	250.0	0.50	450
CTMC1812SF-1R2_	1.20	7.96	50	240.0	0.55	430
CTMC1812SF-1R5_	1.50	7.96	50	210.0	0.60	410
CTMC1812SF-1R8_	1.80	7.96	50	190.0	0.65	390
CTMC1812SF-2R2_	2.20	7.96	50	160.0	0.70	380
CTMC1812SF-2R7_	2.70	7.96	50	150.0	0.75	370
CTMC1812SF-3R3_	3.30	7.96	50	110.0	0.80	355
CTMC1812SF-3R9_	3.90	7.96	50	100.0	0.90	330
CTMC1812SF-4R7_	4.70	7.96	50	80.0	1.00	315
CTMC1812SF-5R6_	5.60	7.96	50	50.0	1.10	300
CTMC1812SF-6R8_	6.80	7.96	50	35.0	1.20	285
CTMC1812SF-8R2_	8.20	7.96	50	28.0	1.40	270
CTMC1812SF-100_	10	2.52	50	22.0	1.60	250
CTMC1812SF-120_	12	2.52	50	20.0	2.00	225
CTMC1812SF-150_	15	2.52	50	18.0	2.50	200
CTMC1812SF-180_	18	2.52	50	16.0	2.80	190
CTMC1812SF-220_	22	2.52	50	14.0	3.20	180
CTMC1812SF-270_	27	2.52	50	13.0	3.60	170
CTMC1812SF-330_	33	2.52	50	12.0	4.00	160
CTMC1812SF-390_	39	2.52	50	11.0	4.50	150
CTMC1812SF-470_	47	2.52	50	10.5	5.00	140
CTMC1812SF-560_	56	2.52	50	10.0	5.50	135
CTMC1812SF-680_	68	2.52	50	9.5	6.00	130
CTMC1812SF-820_	82	2.52	50	8.5	7.00	120
CTMC1812SF-101_	100	0.796	40	8.0	8.00	110
CTMC1812SF-121_	120	0.796	40	7.0	8.00	110
CTMC1812SF-151_	150	0.796	40	6.0	9.00	105
CTMC1812SF-181_	180	0.796	40	5.5	9.50	102
CTMC1812SF-221_	220	0.796	40	5.0	10.00	100
CTMC1812SF-271_	270	0.796	40	4.5	12.00	92
CTMC1812SF-331_	330	0.796	40	4.0	14.00	85
CTMC1812SF-391_	390	0.796	40	3.5	18.00	80
CTMC1812SF-471_	470	0.796	40	3.5	26.00	62
CTMC1812SF-561_	560	0.796	30	3.0	30.00	50
CTMC1812SF-681_	680	0.796	30	3.0	30.00	50
CTMC1812SF-821_	820	0.796	30	2.5	35.00	30
CTMC1812SF-102_	1000	0.252	20	2.5	40.00	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	1.00 ^{+0.3}
inches	0.18±0.012	0.13±0.008	0.13±0.008	0.047	0.17±0.008	0.04 ^{+0.01}

