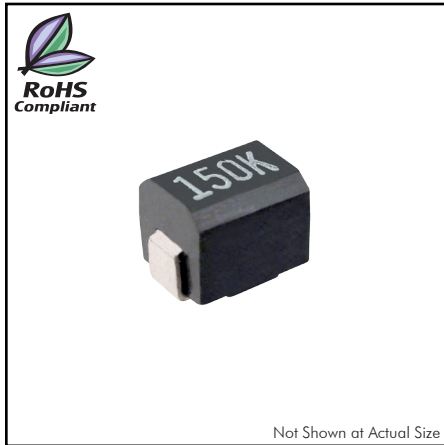


CTHC1812F

Series

From 1.0 μ H to 680 μ H



CHARACTERISTICS

Description: High current, 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 +125°C (temp. rise included)

Storage Temperature: -40°C to +125°C

Temperature Rise: 20°C Max.

Ambient Temperature: 100°C Max.

Rated Current: Current which causes inductance to drop within 10%

Resistance to Solder Heat: 250°C, 10 seconds

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

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

Additional Information: Additional electrical & physical information available upon request

Samples available. See website for ordering information.

SPECIFICATIONS

Please specify tolerance code when ordering.

CTHC1812F-1R0 $\leftarrow$ 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)
CTHC1812F-1R0	1.0	7.96	10	7.96	180	.11	1050
CTHC1812F-1R2	1.2	7.96	10	7.96	160	.12	1000
CTHC1812F-1R5	1.5	7.96	10	7.96	130	.15	950
CTHC1812F-1R8	1.8	7.96	10	7.96	100	.16	900
CTHC1812F-2R2	2.2	7.96	10	7.96	80	.18	850
CTHC1812F-2R7	2.7	7.96	10	7.96	60	.20	800
CTHC1812F-3R3	3.3	7.96	10	7.96	45	.22	750
CTHC1812F-3R9	3.9	7.96	10	7.96	40	.24	700
CTHC1812F-4R7	4.7	7.96	10	7.96	35	.27	650
CTHC1812F-5R6	5.6	7.96	10	7.96	30	.30	650
CTHC1812F-6R8	6.8	7.96	10	7.96	28	.35	600
CTHC1812F-8R2	8.2	7.96	10	7.96	25	.40	600
CTHC1812F-100	10	2.52	10	2.52	22	.50	550
CTHC1812F-120	12	2.52	10	2.52	21	.60	500
CTHC1812F-150	15	2.52	10	2.52	20	.70	450
CTHC1812F-180	18	2.52	10	2.52	19	.80	400
CTHC1812F-220	22	2.52	10	2.52	18	.90	370
CTHC1812F-270	27	2.52	10	2.52	16	1.2	330
CTHC1812F-330	33	2.52	10	2.52	14	1.4	300
CTHC1812F-390	39	2.52	10	2.52	12	1.6	280
CTHC1812F-470	47	2.52	10	2.52	11.5	1.9	260
CTHC1812F-560	56	2.52	10	2.52	11	2.2	240
CTHC1812F-680	68	2.52	10	2.52	10	2.6	220
CTHC1812F-820	82	2.52	10	2.52	9.0	3.5	200
CTHC1812F-101	100	0.796	20	0.796	8.0	4.0	180
CTHC1812F-121	120	0.796	20	0.796	7.5	4.5	160
CTHC1812F-151	150	0.796	20	0.796	7.0	6.5	140
CTHC1812F-181	180	0.796	20	0.796	6.5	7.5	120
CTHC1812F-221	220	0.796	20	0.796	5.5	9.0	120
CTHC1812F-271	270	0.796	20	0.796	5.0	11	100
CTHC1812F-331	330	0.796	20	0.796	4.0	13	90
CTHC1812F-391	390	0.796	20	0.796	3.0	14	85
CTHC1812F-471	470	0.796	20	0.796	3.0	16	75
CTHC1812F-561	560	0.796	20	0.796	3.0	21	70
CTHC1812F-681	680	0.796	20	0.796	2.5	24.2	65

PHYSICAL DIMENSIONS

Size	A	B	C	D	E
mm	4.5 $\pm$ 0.3	3.2 $\pm$ 0.2	3.2 $\pm$ 0.2	1.2	1.0 $^{+0.3}_{-0.0}$
inches	0.18 $\pm$ 0.012	0.12 $\pm$ 0.001	0.12 $\pm$ 0.001	0.047	0.04 $^{+0.012}_{-0.0}$

