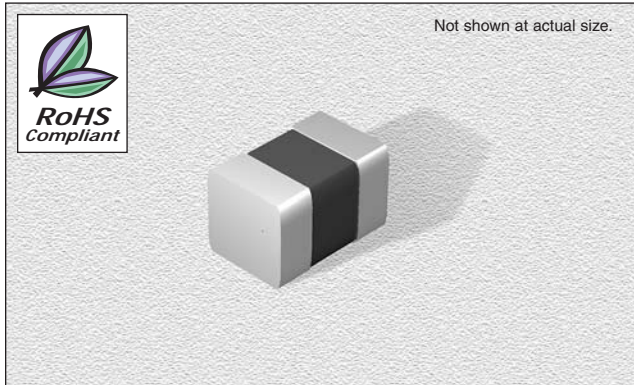


## CTML0805HCF Series

From 1.0  $\mu\text{H}$  to 100  $\mu\text{H}$



### CHARACTERISTICS

**Description:** Ferrite core, multi-layer high current chip inductor. Magnetic shielded.

**Applications:** LC resonant circuits such as oscillator and signal generators, RF filters, disk drives, audio and video equipment, TV, radio and telecommunication equipment

**Operating Temperature:**  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$

**Inductance Tolerance:**  $\pm 20\%$

**Testing:** Inductance tested on an HP4285A at specified frequency

**Packaging:** Tape & Reel

**Marking:** Reels marked with inductance code and tolerance

**Miscellaneous:** **RoHS Compliant**

**Additional Information:** Additional electrical & physical information available upon request

**Samples available. See website for ordering information.**

### SPECIFICATIONS

Parts are only available in  $\pm 20\%$  inductance tolerance.  
**Isat1:** DC current at which the inductance drops 10% (typ) from its value without current.  
**Isat2:** DC current at which the inductance drops 30% (typ) from its value without current.  
**I<sub>rms</sub>:** Current that causes a  $20^{\circ}\text{C}$  temperature rise from  $25^{\circ}\text{C}$  ambient.

Part Number	Inductance ( $\mu\text{H}$ )	Test Freq. (MHz)	DCR Max. ( $\Omega$ )	Isat1 Max. (mA)	Isat2 Max. (mA)	I <sub>rms</sub> Max. (mA)
CTML0805HCF-1R0M	1.0	7.96	0.075	300	550	1150
CTML0805HCF-2R2M	2.2	7.96	0.114	240	400	900
CTML0805HCF-4R7M	4.7	7.96	0.260	140	280	600
CTML0805HCF-100M	10	2.52	0.390	100	180	500
CTML0805HCF-220M	22	2.52	0.910	75	110	300
CTML0805HCF-470M	47	2.52	1.794	50	85	230
CTML0805HCF-101M	100	2.52	3.900	30	60	160

### PHYSICAL DIMENSIONS

Size	A	B	C	D
mm	$2 \pm 0.2$	$1.25 \pm 0.2$	$1.25 \pm 0.2$	0.2-0.8
inches	$0.08 \pm 0.008$	$0.05 \pm 0.008$	$0.05 \pm 0.008$	0.008-0.031

