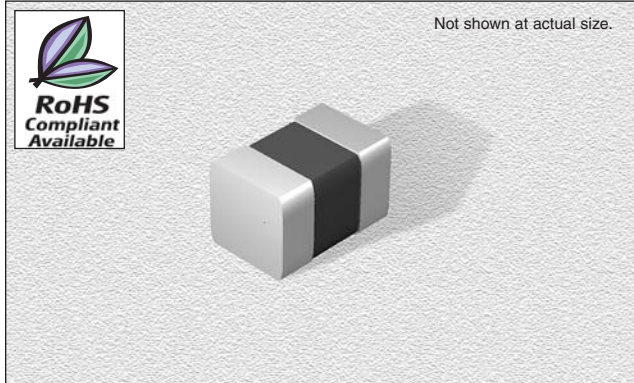


## CTML0805 Series

From .047  $\mu\text{H}$  to 33  $\mu\text{H}$

### ENGINEERING KIT #17



### CHARACTERISTICS

**Description:** Ferrite core, multi-layer 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°C to +125°C

**Inductance Tolerance:**  $\pm 10\%$  &  $\pm 20\%$

**Testing:** Inductance and Q are tested on an HP4285A or HP4286A at specified frequency

**Packaging:** Tape & Reel

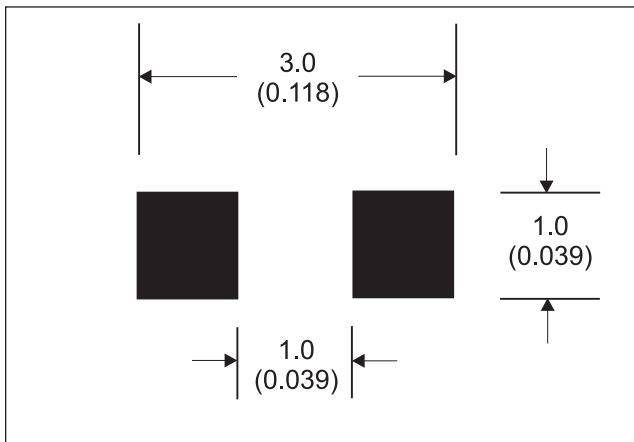
**Marking:** Reels marked with inductance code and tolerance

**Miscellaneous:** RoHS Compliant available

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

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

### PAD LAYOUT



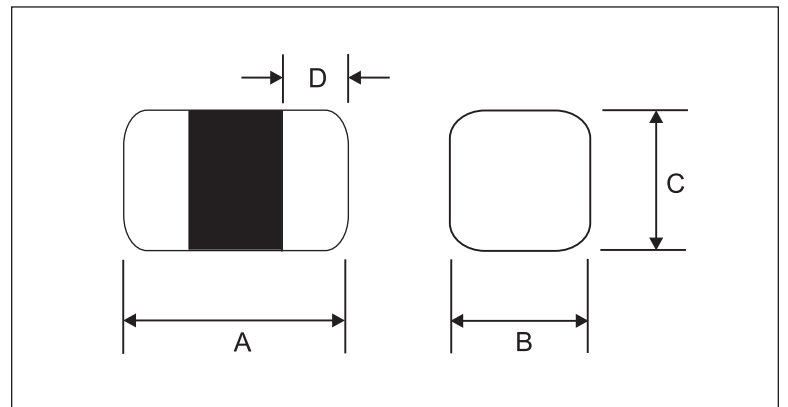
### SPECIFICATIONS

Please specify tolerance code when ordering.  
 CTML0805-R10\_ ← K =  $\pm 10\%$ , M =  $\pm 20\%$   
 CTML0805E Please specify "F" for RoHS Compliant

Part Number	Inductance ( $\mu\text{H}$ )	L Test Freq. (MHz)	Q Factor Min.	Q Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. ( $\Omega$ )	Rated DC (mA)	Height C (mm)
CTML0805_-R047M	.047	50	15	50	320	.20	300	0.90 $\pm$ 0.2
CTML0805_-R068M	.068	50	15	50	280	.20	300	0.90 $\pm$ 0.2
CTML0805_-R082M	.082	50	15	50	255	.20	300	0.90 $\pm$ 0.2
CTML0805_-R10_	.10	25	20	25	235	.30	250	0.90 $\pm$ 0.2
CTML0805_-R12_	.12	25	20	25	220	.30	250	0.90 $\pm$ 0.2
CTML0805_-R15_	.15	25	20	25	200	.40	250	0.90 $\pm$ 0.2
CTML0805_-R18_	.18	25	20	25	185	.40	250	0.90 $\pm$ 0.2
CTML0805_-R22_	.22	25	20	25	170	.50	250	0.90 $\pm$ 0.2
CTML0805_-R27_	.27	25	20	25	150	.50	250	0.90 $\pm$ 0.2
CTML0805_-R33_	.33	25	25	25	145	.55	250	0.90 $\pm$ 0.2
CTML0805_-R39_	.39	25	25	25	135	.65	200	0.90 $\pm$ 0.2
CTML0805_-R47_	.47	25	25	25	125	.65	200	0.90 $\pm$ 0.2
CTML0805_-R56_	.56	25	25	25	115	.75	150	0.90 $\pm$ 0.2
CTML0805_-R68_	.68	25	25	25	105	.80	150	0.90 $\pm$ 0.2
CTML0805_-R82_	.82	25	25	25	100	1.0	150	0.90 $\pm$ 0.2
CTML0805_-1R0_	1.0	10	45	10	75	.40	50	0.90 $\pm$ 0.2
CTML0805_-1R2_	1.2	10	45	10	65	.50	50	0.90 $\pm$ 0.2
CTML0805_-1R5_	1.5	10	45	10	60	.50	50	0.90 $\pm$ 0.2
CTML0805_-1R8_	1.8	10	45	10	55	.60	50	0.90 $\pm$ 0.2
CTML0805_-2R2_	2.2	10	45	10	50	.65	30	0.90 $\pm$ 0.2
CTML0805_-2R7_	2.7	10	45	10	45	.75	30	1.25 $\pm$ 0.2
CTML0805_-3R3_	3.3	10	45	10	41	.80	30	1.25 $\pm$ 0.2
CTML0805_-3R9_	3.9	10	45	10	38	.90	30	1.25 $\pm$ 0.2
CTML0805_-4R7_	4.7	10	45	10	35	1.0	30	1.25 $\pm$ 0.2
CTML0805_-5R6_	5.6	4.0	50	4.0	32	.90	15	1.25 $\pm$ 0.2
CTML0805_-6R8_	6.8	4.0	50	4.0	29	1.0	15	1.25 $\pm$ 0.2
CTML0805_-8R2_	8.2	4.0	50	4.0	26	1.1	15	1.25 $\pm$ 0.2
CTML0805_-100_	10	2.0	45	2.0	24	1.1	15	0.90 $\pm$ 0.2
CTML0805_-120_	12	2.0	50	2.0	22	1.2	15	0.90 $\pm$ 0.2
CTML0805_-150_	15	1.0	30	1.0	19	.80	5.0	0.90 $\pm$ 0.2
CTML0805_-180_	18	1.0	30	1.0	18	.90	5.0	0.90 $\pm$ 0.2
CTML0805_-220_	22	1.0	30	1.0	16	1.1	5.0	0.90 $\pm$ 0.2
CTML0805_-270_	27	1.0	30	1.0	14	1.1	5.0	0.90 $\pm$ 0.2
CTML0805_-330_	33	.40	30	.40	13	1.2	5.0	0.90 $\pm$ 0.2

### PHYSICAL DIMENSIONS

Size	A	B	C	D
mm	2 $\pm$ 0.2	1.25 $\pm$ 0.2	See	0.5 $\pm$ 0.3
inches	0.08 $\pm$ 0.008	0.05 $\pm$ 0.008	Ordering Info	0.02 $\pm$ 0.012



11.14.08