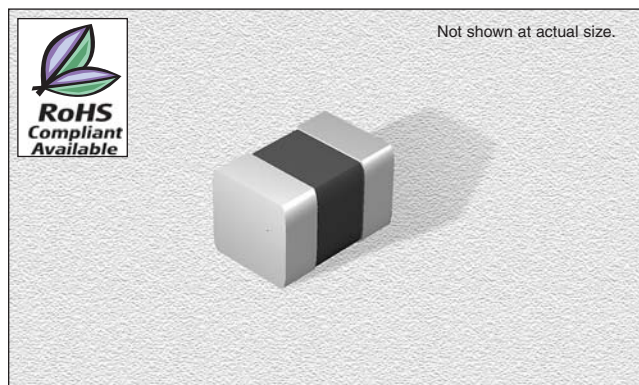


# CTML0805 Series

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

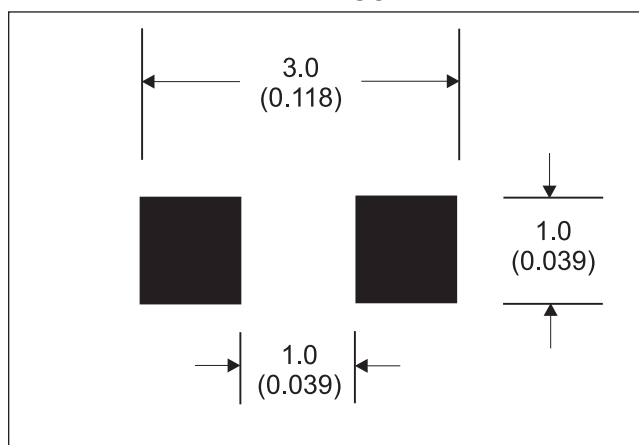
**Marking:** Reels marked with inductance code and tolerance

**Miscellaneous:** RoHS Compliant available

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

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

## PAD LAYOUT



## SPECIFICATIONS

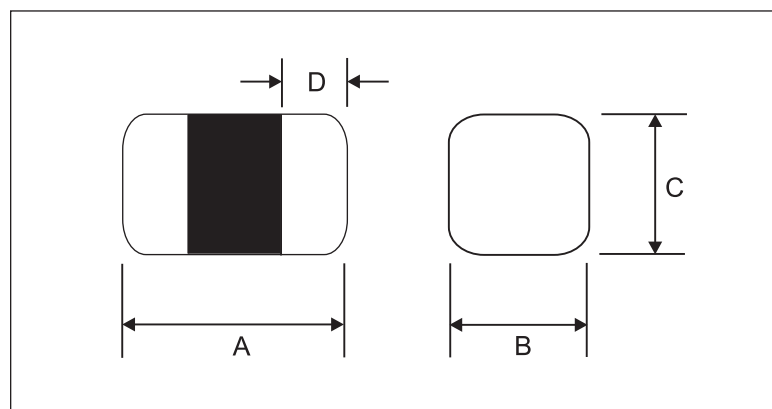
Please specify tolerance code when ordering.  
CTML0805-R10\_  $\leftarrow$  K =  $\pm 10\%$ , M =  $\pm 20\%$

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