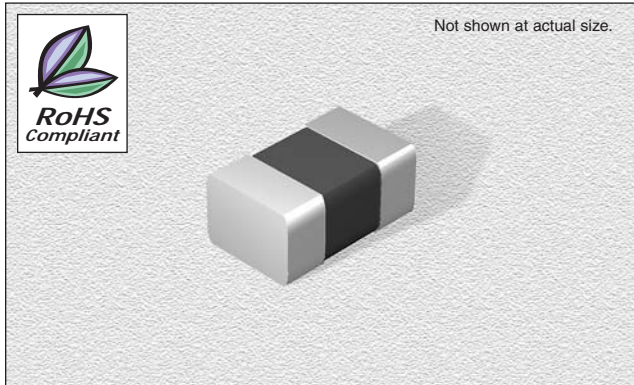


# CTML1206F Series

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

## SPECIFICATIONS

Please specify tolerance code when ordering.  
CTML1206-R10\_ ← K =  $\pm 10\%$ , M =  $\pm 20\%$



## 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

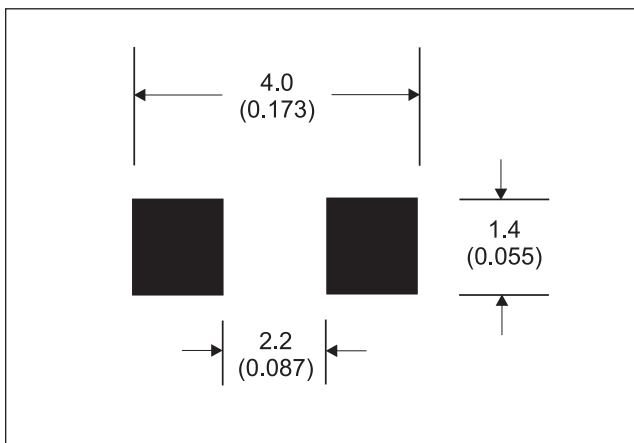
**Miscellaneous:** RoHS Compliant.

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

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

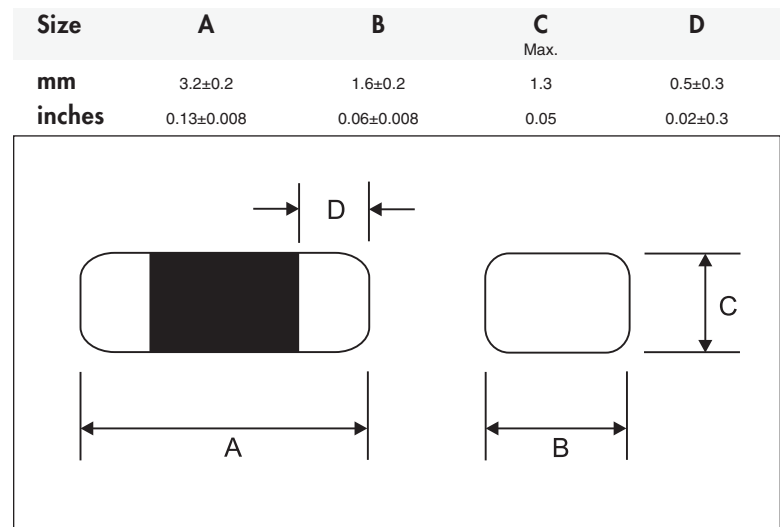
**Samples available. See website for ordering information.**

## PAD LAYOUT



| 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) |
|-----------------|------------------------------|--------------------|---------------|--------------------|----------------|-----------------------|---------------|
| CTML1206F-R047M | .047                         | 50                 | 25            | 50                 | 320            | .15                   | 300           |
| CTML1206F-R068M | .068                         | 50                 | 25            | 50                 | 280            | .25                   | 300           |
| CTML1206F-R082M | .082                         | 50                 | 25            | 50                 | 250            | .25                   | 300           |
| CTML1206F-R10_  | .10                          | 25                 | 30            | 25                 | 235            | .25                   | 250           |
| CTML1206F-R12_  | .12                          | 25                 | 30            | 25                 | 250            | .30                   | 250           |
| CTML1206F-R15_  | .15                          | 25                 | 30            | 25                 | 200            | .30                   | 250           |
| CTML1206F-R18_  | .18                          | 25                 | 30            | 25                 | 185            | .40                   | 250           |
| CTML1206F-R22_  | .22                          | 25                 | 30            | 25                 | 170            | .50                   | 250           |
| CTML1206F-R27_  | .27                          | 25                 | 30            | 25                 | 150            | .50                   | 250           |
| CTML1206F-R33_  | .33                          | 25                 | 30            | 25                 | 145            | .60                   | 250           |
| CTML1206F-R39_  | .39                          | 25                 | 30            | 25                 | 135            | .50                   | 200           |
| CTML1206F-R47_  | .47                          | 25                 | 30            | 25                 | 125            | .60                   | 200           |
| CTML1206F-R56_  | .56                          | 25                 | 30            | 25                 | 115            | .70                   | 150           |
| CTML1206F-R68_  | .68                          | 25                 | 30            | 25                 | 105            | .80                   | 150           |
| CTML1206F-R82_  | .82                          | 25                 | 30            | 25                 | 100            | .90                   | 150           |
| CTML1206F-1R0_  | 1.0                          | 10                 | 45            | 10                 | 75             | .40                   | 100           |
| CTML1206F-1R2_  | 1.2                          | 10                 | 45            | 10                 | 65             | .50                   | 100           |
| CTML1206F-1R5_  | 1.5                          | 10                 | 45            | 10                 | 60             | .50                   | 50            |
| CTML1206F-1R8_  | 1.8                          | 10                 | 45            | 10                 | 55             | .50                   | 50            |
| CTML1206F-2R2_  | 2.2                          | 10                 | 45            | 10                 | 50             | .60                   | 50            |
| CTML1206F-2R7_  | 2.7                          | 10                 | 45            | 10                 | 45             | .60                   | 50            |
| CTML1206F-3R3_  | 3.3                          | 10                 | 45            | 10                 | 41             | .70                   | 50            |
| CTML1206F-3R9_  | 3.9                          | 10                 | 45            | 10                 | 38             | .80                   | 50            |
| CTML1206F-4R7_  | 4.7                          | 10                 | 45            | 10                 | 35             | .90                   | 50            |
| CTML1206F-5R6_  | 5.6                          | 4.0                | 45            | 4.0                | 32             | .70                   | 25            |
| CTML1206F-6R8_  | 6.8                          | 4.0                | 45            | 4.0                | 29             | .90                   | 25            |
| CTML1206F-8R2_  | 8.2                          | 4.0                | 45            | 4.0                | 26             | .90                   | 25            |
| CTML1206F-100_  | 10                           | 2.0                | 45            | 2.0                | 24             | 1.0                   | 25            |
| CTML1206F-120_  | 12                           | 2.0                | 45            | 2.0                | 22             | 1.0                   | 15            |
| CTML1206F-150_  | 15                           | 1.0                | 35            | 1.0                | 19             | .70                   | 5.0           |
| CTML1206F-180_  | 18                           | 1.0                | 35            | 1.0                | 18             | .70                   | 5.0           |
| CTML1206F-220_  | 22                           | 1.0                | 30            | 1.0                | 16             | .90                   | 5.0           |
| CTML1206F-270_  | 27                           | 1.0                | 30            | 1.0                | 14             | .90                   | 5.0           |
| CTML1206F-330_  | 33                           | .40                | 30            | .40                | 13             | 1.0                   | 5.0           |

## PHYSICAL DIMENSIONS



04.15.09