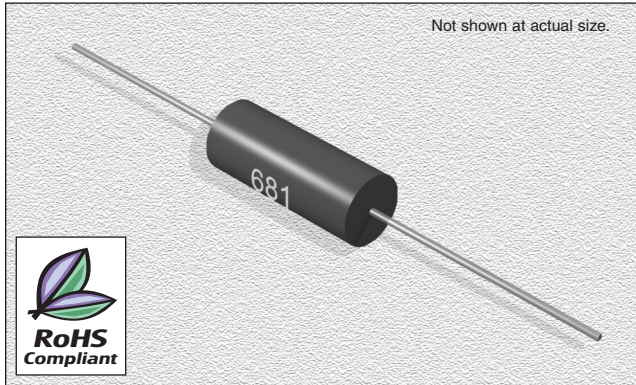


# CTM2474F Series

From 1.0  $\mu\text{H}$  to 18,000  $\mu\text{H}$



## SPECIFICATIONS

Parts are only available in  $\pm 15\%$  inductance tolerance.

| Part Number   | Inductance ( $\mu\text{H}$ ) | L Test Freq. (kHz) | DCR Max. ( $\Omega$ ) | Current Rating Max. (A) | Incr Current (A) |
|---------------|------------------------------|--------------------|-----------------------|-------------------------|------------------|
| CTM2474F-1R0L | 1.0                          | 1.0                | 0.009                 | 6.27                    | 6.4              |
| CTM2474F-1R2L | 1.2                          | 1.0                | 0.010                 | 5.95                    | 5.8              |
| CTM2474F-1R5L | 1.5                          | 1.0                | 0.011                 | 5.67                    | 5.2              |
| CTM2474F-1R8L | 1.8                          | 1.0                | 0.012                 | 5.43                    | 4.8              |
| CTM2474F-2R2L | 2.2                          | 1.0                | 0.013                 | 5.22                    | 4.3              |
| CTM2474F-2R7L | 2.7                          | 1.0                | 0.014                 | 5.03                    | 3.9              |
| CTM2474F-3R3L | 3.3                          | 1.0                | 0.016                 | 4.70                    | 3.5              |
| CTM2474F-3R9L | 3.9                          | 1.0                | 0.017                 | 4.56                    | 3.2              |
| CTM2474F-4R7L | 4.7                          | 1.0                | 0.022                 | 4.01                    | 2.9              |
| CTM2474F-5R6L | 5.6                          | 1.0                | 0.024                 | 3.84                    | 2.7              |
| CTM2474F-6R8L | 6.8                          | 1.0                | 0.026                 | 3.69                    | 2.5              |
| CTM2474F-8R2L | 8.2                          | 1.0                | 0.028                 | 3.55                    | 2.2              |
| CTM2474F-100L | 10                           | 1.0                | 0.033                 | 3.27                    | 2.0              |
| CTM2474F-120L | 12                           | 1.0                | 0.037                 | 3.09                    | 1.8              |
| CTM2474F-150L | 15                           | 1.0                | 0.040                 | 2.97                    | 1.6              |
| CTM2474F-180L | 18                           | 1.0                | 0.044                 | 2.84                    | 1.5              |
| CTM2474F-220L | 22                           | 1.0                | 0.050                 | 2.66                    | 1.4              |
| CTM2474F-270L | 27                           | 1.0                | 0.070                 | 2.25                    | 1.2              |
| CTM2474F-330L | 33                           | 1.0                | 0.075                 | 2.17                    | 1.1              |
| CTM2474F-390L | 39                           | 1.0                | 0.084                 | 2.05                    | 1.0              |
| CTM2474F-470L | 47                           | 1.0                | 0.104                 | 1.84                    | 0.93             |
| CTM2474F-560L | 56                           | 1.0                | 0.130                 | 1.65                    | 0.85             |
| CTM2474F-680L | 68                           | 1.0                | 0.145                 | 1.56                    | 0.77             |
| CTM2474F-820L | 82                           | 1.0                | 0.152                 | 1.53                    | 0.71             |
| CTM2474F-101L | 100                          | 1.0                | 0.208                 | 1.30                    | 0.64             |
| CTM2474F-121L | 120                          | 1.0                | 0.283                 | 1.12                    | 0.58             |
| CTM2474F-151L | 150                          | 1.0                | 0.330                 | 1.04                    | 0.52             |
| CTM2474F-181L | 180                          | 1.0                | 0.362                 | 0.99                    | 0.48             |
| CTM2474F-221L | 220                          | 1.0                | 0.505                 | 0.84                    | 0.43             |
| CTM2474F-271L | 270                          | 1.0                | 0.557                 | 0.80                    | 0.39             |
| CTM2474F-331L | 330                          | 1.0                | 0.650                 | 0.74                    | 0.35             |
| CTM2474F-391L | 390                          | 1.0                | 0.770                 | 0.68                    | 0.32             |
| CTM2474F-471L | 470                          | 1.0                | 1.03                  | 0.59                    | 0.29             |
| CTM2474F-561L | 560                          | 1.0                | 1.14                  | 0.56                    | 0.27             |
| CTM2474F-681L | 680                          | 1.0                | 1.50                  | 0.49                    | 0.25             |
| CTM2474F-821L | 820                          | 1.0                | 1.98                  | 0.42                    | 0.22             |
| CTM2474F-102L | 1000                         | 1.0                | 2.30                  | 0.39                    | 0.20             |
| CTM2474F-122L | 1200                         | 1.0                | 2.55                  | 0.37                    | 0.18             |
| CTM2474F-152L | 1500                         | 1.0                | 3.00                  | 0.34                    | 0.16             |
| CTM2474F-182L | 1800                         | 1.0                | 4.00                  | 0.30                    | 0.15             |
| CTM2474F-222L | 2200                         | 1.0                | 4.40                  | 0.28                    | 0.14             |
| CTM2474F-272L | 2700                         | 1.0                | 5.80                  | 0.25                    | 0.12             |
| CTM2474F-332L | 3300                         | 1.0                | 6.56                  | 0.23                    | 0.11             |
| CTM2474F-392L | 3900                         | 1.0                | 8.63                  | 0.20                    | 0.10             |
| CTM2474F-472L | 4700                         | 1.0                | 10.1                  | 0.19                    | 0.09             |
| CTM2474F-562L | 5600                         | 1.0                | 11.2                  | 0.18                    | 0.09             |
| CTM2474F-682L | 6800                         | 1.0                | 15.0                  | 0.15                    | 0.08             |
| CTM2474F-822L | 8200                         | 1.0                | 20.8                  | 0.13                    | 0.07             |
| CTM2474F-103L | 10000                        | 1.0                | 23.4                  | 0.12                    | 0.06             |
| CTM2474F-123L | 12000                        | 1.0                | 26.0                  | 0.12                    | 0.06             |
| CTM2474F-153L | 15000                        | 1.0                | 36.0                  | 0.10                    | 0.05             |
| CTM2474F-183L | 18000                        | 1.0                | 40.0                  | 0.09                    | 0.05             |

## CHARACTERISTICS

**Description:** Axial leaded molded inductor.

**Applications:** Used for various kinds of OSC and TRAP coils.

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

**Inductance Tolerance:**  $\pm 15\%$

**Testing:** Inductance and Q are tested on an HP4284A at 1KHz.

Inductance measured at 1V with no DC current.

**Packaging:** Tape & Reel, 1,000 parts per reel.

**Marking:** Parts are marked with inductance code.

**Material:** Molded epoxy resin over coil.

**Rated Current:** Current Rating  $40^{\circ}\text{C}$  Rise over  $85^{\circ}\text{C}$  Ambient.

**Maximum power dissipation at  $85^{\circ}\text{C}$  ambient:** 0.50W

**Incremental current:** Current at which the inductance will be decreased by a maximum of 5% from its zero DC value.

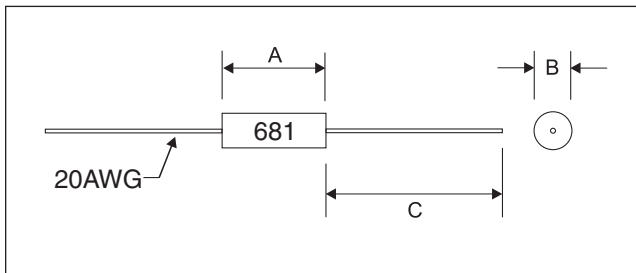
**Miscellaneous:** RoHS Compliant.

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

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

## PHYSICAL DIMENSIONS

| Size   | A               | B               | C<br>Typ.       |
|--------|-----------------|-----------------|-----------------|
| mm     | 18.8 $\pm$ 0.25 | 6.10 $\pm$ 0.25 | 36.6 $\pm$ 3.05 |
| inches | 0.74 $\pm$ 0.01 | 0.24 $\pm$ 0.01 | 1.44 $\pm$ 0.12 |



05.07.12