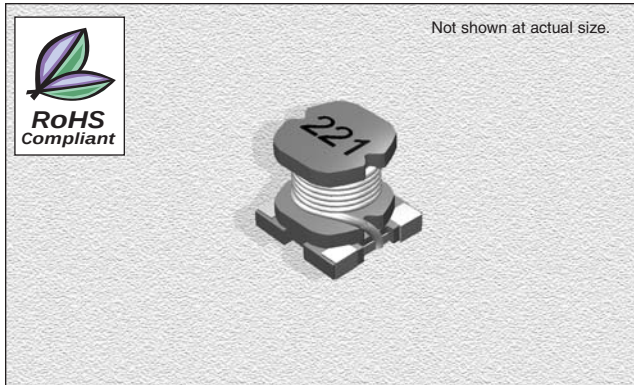


# CTCR54F Series

## From 10 $\mu$ H to 220 $\mu$ H

### SPECIFICATIONS

Parts are only available in  $\pm 20\%$  inductance tolerance.



| Part Number  | Inductance ( $\mu$ H) | L Test Freq. (.Hz) | DCR Max. ( $\Omega$ ) | Rated DC (A) |
|--------------|-----------------------|--------------------|-----------------------|--------------|
| CTCR54F-100M | 10                    | 2.52M              | 0.1                   | 1.44         |
| CTCR54F-120M | 12                    | 2.52M              | 0.12                  | 1.4          |
| CTCR54F-150M | 15                    | 2.52M              | 0.14                  | 1.3          |
| CTCR54F-180M | 18                    | 2.52M              | 0.15                  | 1.23         |
| CTCR54F-220M | 22                    | 2.52M              | 0.18                  | 1.11         |
| CTCR54F-270M | 27                    | 2.52M              | 0.2                   | 0.97         |
| CTCR54F-330M | 33                    | 2.52M              | 0.23                  | 0.88         |
| CTCR54F-390M | 39                    | 2.52M              | 0.32                  | 0.80         |
| CTCR54F-470M | 47                    | 2.52M              | 0.37                  | 0.72         |
| CTCR54F-560M | 56                    | 2.52M              | 0.42                  | 0.68         |
| CTCR54F-680M | 68                    | 2.52M              | 0.46                  | 0.61         |
| CTCR54F-820M | 82                    | 2.52M              | 0.60                  | 0.58         |
| CTCR54F-101M | 100                   | 1.0k               | 0.70                  | 0.52         |
| CTCR54F-121M | 120                   | 1.0k               | 0.93                  | 0.48         |
| CTCR54F-151M | 150                   | 1.0k               | 1.1                   | 0.40         |
| CTCR54F-181M | 180                   | 1.0k               | 1.38                  | 0.38         |
| CTCR54F-221M | 220                   | 1.0k               | 1.57                  | 0.35         |

### PHYSICAL DIMENSIONS

| Size   | A<br>Max. | B<br>Max. | C<br>Max. | D     | E     | F     | G     |
|--------|-----------|-----------|-----------|-------|-------|-------|-------|
| mm     | 5.6       | 6.1       | 4.85      | 4.7   | 2.5   | 5.8   | 1.4   |
| inches | 0.220     | 0.240     | 0.191     | 0.185 | 0.098 | 0.228 | 0.055 |

### CHARACTERISTICS

**Description:** SMD power inductor

**Applications:** VTR power supplies, OA equipment, LCD televisions, PC notebooks, portable communication equipment, DC/DC converters

**Operating Temperature:**  $-40^{\circ}\text{C}$  to  $+100^{\circ}\text{C}$

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

**Testing:** Inductance is tested on an HP4284A or HP4285A at specified frequency

**Packaging:** Tape & Reel

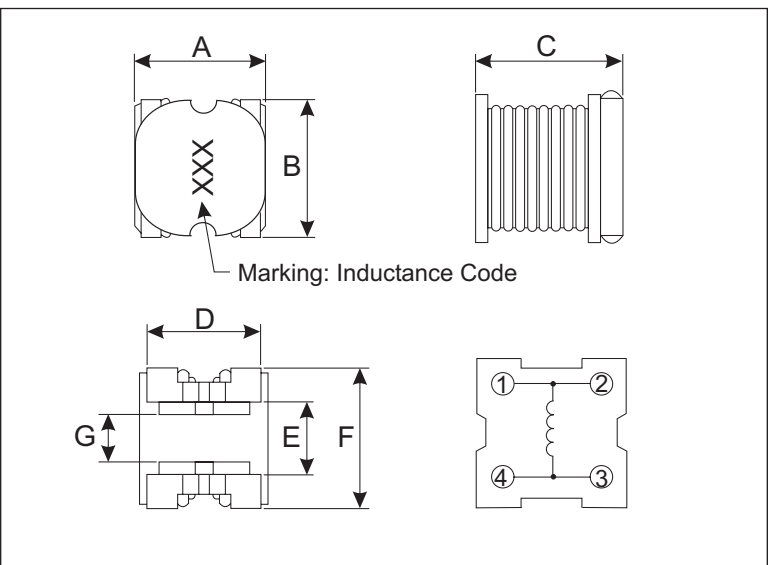
**Marking:** Marked with inductance code

**Rated DC:** This indicates the value of current when the inductance is 10% lower than its initial value at D.C. superimposition or D.C. current when at  $\Delta T=40^{\circ}\text{C}$ , whichever is lower.

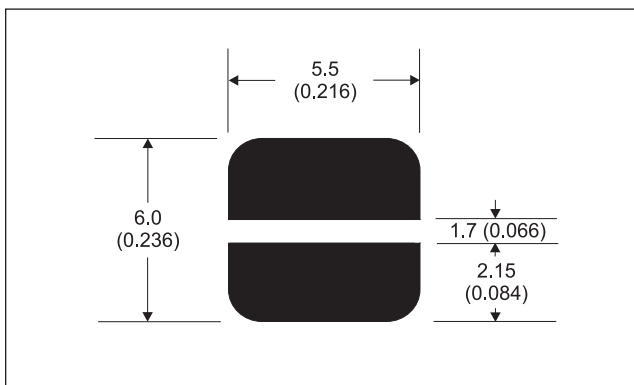
**Miscellaneous:** RoHS Compliant.

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

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



### RECOMMENDED LAND PATTERN



06.11.08