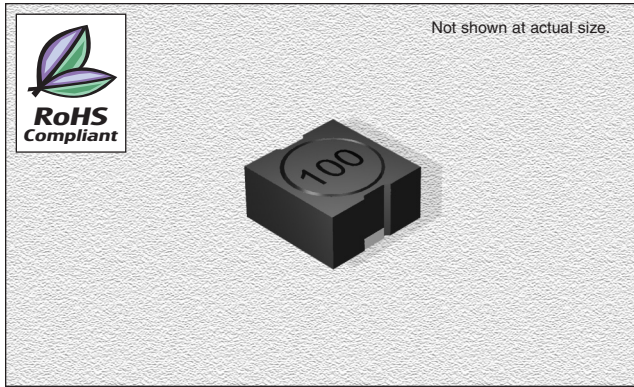


# CTCDRH104F Series

From 1.0  $\mu\text{H}$  to 470  $\mu\text{H}$



## SPECIFICATIONS

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

| Part Number     | Inductance ( $\mu\text{H}$ ) | L Test Freq. (kHz) | DCR Max. ( $\Omega$ ) | Rated DC (A) |
|-----------------|------------------------------|--------------------|-----------------------|--------------|
| CTCDRH104F-1R0M | 1.0                          | 100                | .014                  | 8.50         |
| CTCDRH104F-1R5M | 1.5                          | 100                | .017                  | 8.00         |
| CTCDRH104F-2R2M | 2.2                          | 100                | .024                  | 7.50         |
| CTCDRH104F-3R3M | 3.3                          | 100                | .029                  | 7.00         |
| CTCDRH104F-4R7M | 4.7                          | 100                | .032                  | 6.00         |
| CTCDRH104F-6R8M | 6.8                          | 100                | .044                  | 5.00         |
| CTCDRH104F-100M | 10                           | 100                | .050                  | 2.40         |
| CTCDRH104F-120M | 12                           | 100                | .054                  | 2.25         |
| CTCDRH104F-150M | 15                           | 100                | .069                  | 2.00         |
| CTCDRH104F-180M | 18                           | 100                | .084                  | 1.80         |
| CTCDRH104F-220M | 22                           | 100                | .094                  | 1.65         |
| CTCDRH104F-270M | 27                           | 100                | 0.11                  | 1.45         |
| CTCDRH104F-330M | 33                           | 100                | 0.15                  | 1.35         |
| CTCDRH104F-390M | 39                           | 100                | 0.17                  | 1.20         |
| CTCDRH104F-470M | 47                           | 100                | 0.21                  | 1.10         |
| CTCDRH104F-560M | 56                           | 100                | 0.23                  | 1.00         |
| CTCDRH104F-680M | 68                           | 100                | 0.29                  | 0.93         |
| CTCDRH104F-820M | 82                           | 100                | 0.36                  | 0.84         |
| CTCDRH104F-101M | 100                          | 100                | 0.41                  | 0.76         |
| CTCDRH104F-121M | 120                          | 100                | 0.45                  | 0.70         |
| CTCDRH104F-151M | 150                          | 100                | 0.64                  | 0.63         |
| CTCDRH104F-181M | 180                          | 100                | 0.84                  | 0.57         |
| CTCDRH104F-221M | 220                          | 100                | 0.86                  | 0.52         |
| CTCDRH104F-271M | 270                          | 100                | 1.07                  | 0.47         |
| CTCDRH104F-331M | 330                          | 100                | 1.37                  | 0.43         |
| CTCDRH104F-391M | 390                          | 100                | 1.55                  | 0.39         |
| CTCDRH104F-471M | 470                          | 100                | 1.74                  | 0.36         |

## CHARACTERISTICS

**Description:** SMD (shielded) power inductor

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

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

**Operating Temperature:**  $-30^{\circ}\text{C}$  to  $+100^{\circ}\text{C}$

**Testing:** Inductance is tested on an HP4285A at 100kHz

**Packaging:** Tape & Reel

**Marking:** Marked with inductance code

**Rated DC:** Maximum allowable DC current is that which causes a 25% inductance reduction from the initial value, or coil temperature to rise by  $40^{\circ}\text{C}$ , whichever is smaller. (Reference ambient temperature  $25^{\circ}\text{C}$ ).

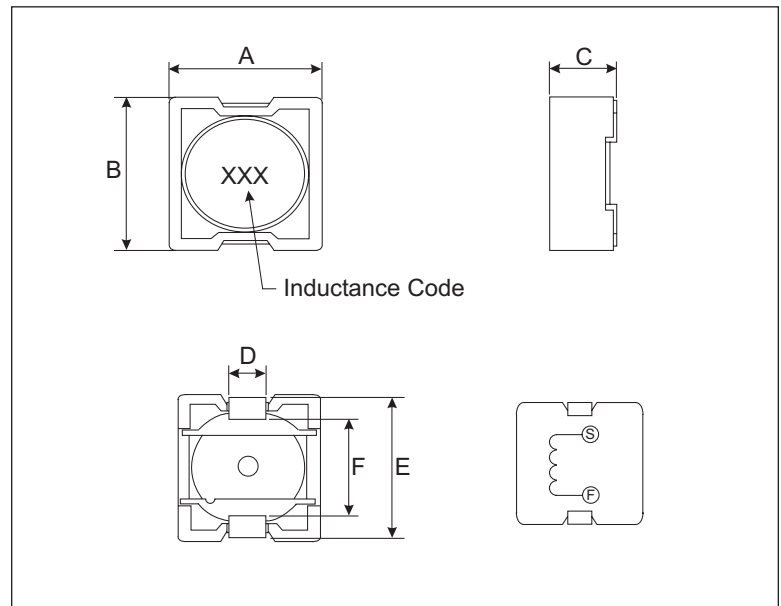
**Miscellaneous:** RoHS Compliant

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

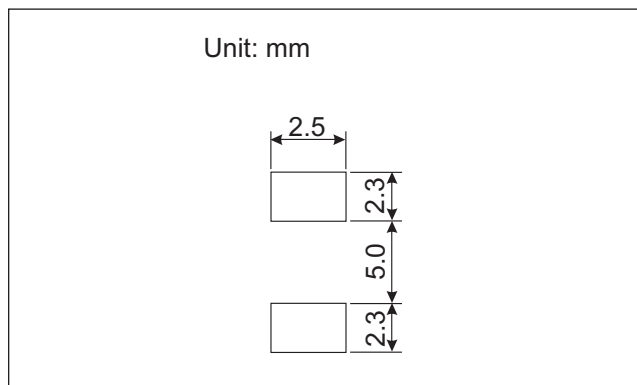
**Samples available. See website for ordering information.**

## PHYSICAL DIMENSIONS

| Size   | A<br>Max. | B<br>Max. | C<br>Max. | D<br>Typ. | E<br>Typ. | F<br>Typ. |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|
| mm     | 9.2       | 10.1      | 5.0       | 2.0       | 8.3       | 5.3       |
| inches | 0.362     | 0.398     | 0.197     | 0.079     | 0.327     | 0.209     |



## RECOMMENDED LAND PATTERN



08.16.07