

## CTCH114F Series From 6.3 $\mu$ H to 39,000 $\mu$ H



### CHARACTERISTICS

**Description:** Radial leaded fixed inductor

**Applications:** High reliability, efficiency and saturation. Ideal for use as power choke coil in switching power supply, TV sets, video appliances, and industrial equipment as well as use as a peaking coil in filtering applications

**Inductance Tolerance:**  $\pm 15\%$ ,  $\pm 20\%$

**Testing:** Tested on a HP4285A or HP4284A at specified frequency

**Packaging:** Bulk packaging

**Rated Current:** The rated D.C. current indicates the value of current when the inductance is 10% lower than its initial value at D.C. superposition or D.C. current when at  $\Delta t = 40^\circ\text{C}$  whichever is lower. ( $T_a = 20^\circ\text{C}$ )

**Miscellaneous:** RoHS Compliant

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

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

### SPECIFICATIONS

Part numbers indicate available inductance tolerance.

K =  $\pm 10\%$ , M =  $\pm 20\%$

| Part Number   | Inductance ( $\mu$ H) | Test Freq. (. Hz) | DCR Max. ( $\Omega$ ) | Rated DC (A) |
|---------------|-----------------------|-------------------|-----------------------|--------------|
| CTCH114F-6R3M | 6.3                   | 2.52M             | 0.026                 | 4.30         |
| CTCH114F-7R5M | 7.5                   | 2.52M             | 0.029                 | 4.20         |
| CTCH114F-8R8M | 8.8                   | 2.52M             | 0.030                 | 4.10         |
| CTCH114F-100M | 10                    | 2.52M             | 0.033                 | 4.00         |
| CTCH114F-120M | 12                    | 2.52M             | 0.035                 | 3.90         |
| CTCH114F-150M | 15                    | 2.52M             | 0.039                 | 3.70         |
| CTCH114F-180M | 18                    | 2.52M             | 0.047                 | 3.50         |
| CTCH114F-220M | 22                    | 2.52M             | 0.051                 | 3.30         |
| CTCH114F-270M | 27                    | 2.52M             | 0.057                 | 3.10         |
| CTCH114F-330M | 33                    | 2.52M             | 0.064                 | 2.90         |
| CTCH114F-390M | 39                    | 2.52M             | 0.074                 | 2.70         |
| CTCH114F-470M | 47                    | 2.52M             | 0.083                 | 2.50         |
| CTCH114F-560L | 56                    | 2.52M             | 0.104                 | 2.30         |
| CTCH114F-680L | 68                    | 2.52M             | 0.117                 | 2.10         |
| CTCH114F-820L | 82                    | 2.52M             | 0.130                 | 1.90         |
| CTCH114F-101L | 100                   | 1.00k             | 0.143                 | 1.70         |
| CTCH114F-121L | 120                   | 1.00k             | 0.195                 | 1.50         |
| CTCH114F-151L | 150                   | 1.00k             | 0.221                 | 1.40         |
| CTCH114F-181L | 180                   | 1.00k             | 0.260                 | 1.30         |
| CTCH114F-221L | 220                   | 1.00k             | 0.350                 | 1.20         |
| CTCH114F-271L | 270                   | 1.00k             | 0.390                 | 1.10         |
| CTCH114F-331L | 330                   | 1.00k             | 0.520                 | 1.00         |
| CTCH114F-391L | 390                   | 1.00k             | 0.570                 | 0.92         |
| CTCH114F-471L | 470                   | 1.00k             | 0.650                 | 0.84         |
| CTCH114F-561L | 560                   | 1.00k             | 0.790                 | 0.75         |
| CTCH114F-681L | 680                   | 1.00k             | 0.960                 | 0.69         |
| CTCH114F-821L | 820                   | 1.00k             | 1.220                 | 0.62         |
| CTCH114F-102L | 1000                  | 1.00k             | 1.600                 | 0.52         |
| CTCH114F-122L | 1200                  | 1.00k             | 2.200                 | 0.46         |
| CTCH114F-152L | 1500                  | 1.00k             | 2.500                 | 0.41         |
| CTCH114F-182L | 1800                  | 1.00k             | 2.900                 | 0.36         |
| CTCH114F-222L | 2200                  | 1.00k             | 3.200                 | 0.32         |
| CTCH114F-272L | 2700                  | 1.00k             | 3.700                 | 0.29         |
| CTCH114F-332L | 3300                  | 1.00k             | 5.000                 | 0.27         |
| CTCH114F-392L | 3900                  | 1.00k             | 5.600                 | 0.25         |
| CTCH114F-472L | 4700                  | 1.00k             | 7.400                 | 0.23         |
| CTCH114F-562L | 5600                  | 1.00k             | 8.200                 | 0.21         |
| CTCH114F-682L | 6800                  | 1.00k             | 11.900                | 0.19         |
| CTCH114F-822L | 8200                  | 1.00k             | 14.000                | 0.17         |
| CTCH114F-103L | 10000                 | 1.00k             | 16.000                | 0.16         |
| CTCH114F-123L | 12000                 | 1.00k             | 21.000                | 0.15         |
| CTCH114F-153L | 15000                 | 1.00k             | 24.000                | 0.14         |
| CTCH114F-183L | 18000                 | 1.00k             | 27.000                | 0.13         |
| CTCH114F-223L | 22000                 | 1.00k             | 34.000                | 0.12         |
| CTCH114F-273L | 27000                 | 1.00k             | 39.000                | 0.11         |
| CTCH114F-333L | 33000                 | 1.00k             | 51.000                | 0.10         |
| CTCH114F-393L | 39000                 | 1.00k             | 58.000                | 0.09         |

### PHYSICAL DIMENSIONS

| Size   | A    | B               | C                  | D               | E               |
|--------|------|-----------------|--------------------|-----------------|-----------------|
|        | Max. |                 |                    |                 |                 |
| mm     | 14.4 | 5.0 $\pm$ 1.0   | 0.7+0.1,-0.05      | 10.0 $\pm$ 0.5  | 5.0 $\pm$ 0.3   |
| inches | 0.57 | 0.20 $\pm$ 0.04 | 0.027+0.004,-0.002 | 0.40 $\pm$ 0.02 | 0.20 $\pm$ 0.12 |

