

## CTGS54F Series

From 1.0  $\mu$ H to 220  $\mu$ H

ENGINEERING KIT #7



### SPECIFICATIONS

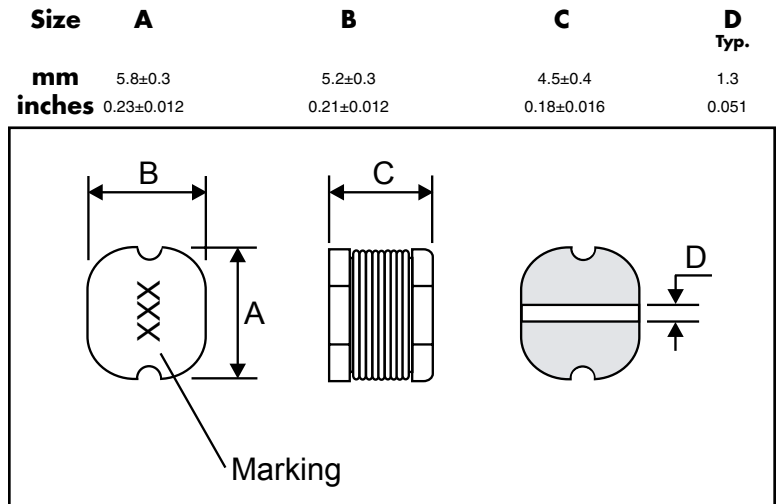
Part numbers indicate tolerance available.  
K =  $\pm 10\%$ , L =  $\pm 15\%$ , M =  $\pm 20\%$

| Part Number  | Inductance ( $\mu$ H) | L Test Freq. (Hz) | DCR Max. ( $\Omega$ ) | Rated DC (A) |
|--------------|-----------------------|-------------------|-----------------------|--------------|
| CTGS54F-1R0M | 1.0                   | 7.96M             | .015                  | 5.9          |
| CTGS54F-1R2M | 1.2                   | 7.96M             | .020                  | 5.2          |
| CTGS54F-1R5M | 1.5                   | 7.96M             | .025                  | 4.7          |
| CTGS54F-1R8M | 1.8                   | 7.96M             | .030                  | 4.0          |
| CTGS54F-2R2M | 2.2                   | 7.96M             | .035                  | 3.8          |
| CTGS54F-2R7M | 2.7                   | 7.96M             | .040                  | 3.4          |
| CTGS54F-3R3M | 3.3                   | 7.96M             | .045                  | 3.3          |
| CTGS54F-3R9M | 3.9                   | 7.96M             | .050                  | 2.9          |
| CTGS54F-4R7M | 4.7                   | 7.96M             | .060                  | 2.8          |
| CTGS54F-5R6M | 5.6                   | 7.96M             | .070                  | 2.4          |
| CTGS54F-6R8M | 6.8                   | 7.96M             | .080                  | 2.1          |
| CTGS54F-8R2M | 8.2                   | 7.96M             | .090                  | 2.0          |
| CTGS54F-100M | 10                    | 2.52M             | .10                   | 1.4          |
| CTGS54F-120M | 12                    | 2.52M             | .12                   | 1.4          |
| CTGS54F-150M | 15                    | 2.52M             | .14                   | 1.3          |
| CTGS54F-180M | 18                    | 2.52M             | .15                   | 1.2          |
| CTGS54F-220M | 22                    | 2.52M             | .18                   | 1.1          |
| CTGS54F-270M | 27                    | 2.52M             | .20                   | .97          |
| CTGS54F-330L | 33                    | 2.52M             | .23                   | .88          |
| CTGS54F-390L | 39                    | 2.52M             | .32                   | .80          |
| CTGS54F-470L | 47                    | 2.52M             | .37                   | .72          |
| CTGS54F-560K | 56                    | 2.52M             | .42                   | .68          |
| CTGS54F-680K | 68                    | 2.52M             | .46                   | .61          |
| CTGS54F-820K | 82                    | 2.52M             | .60                   | .58          |
| CTGS54F-101K | 100                   | 1.0k              | .70                   | .52          |
| CTGS54F-121K | 120                   | 1.0k              | .93                   | .48          |
| CTGS54F-151K | 150                   | 1.0k              | 1.1                   | .40          |
| CTGS54F-181K | 180                   | 1.0k              | 1.4                   | .38          |
| CTGS54F-221K | 220                   | 1.0k              | 1.6                   | .35          |

### CHARACTERISTICS

- Description:** SMD power inductor
- Applications:** VTR power supplies, OA equipment, LCD televisions, PC notebooks, portable communication equipment, DC/DC converters.
- Operating Temperature:** -40°C to +100°C
- Inductance Tolerance:**  $\pm 10\%$ ,  $\pm 15\%$ ,  $\pm 20\%$
- Testing:** Inductance is tested on an HP4284A or HP4285A at specified frequency.
- Packaging:** Tape & Reel.
- Marking:** Parts are marked with inductance code.
- Rated DC:** The value of current when the inductance is 10% lower than it's initial value at 0 Adc 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.**

### PHYSICAL DIMENSIONS



### PAD LAYOUT

