

CTSRU5028F Series

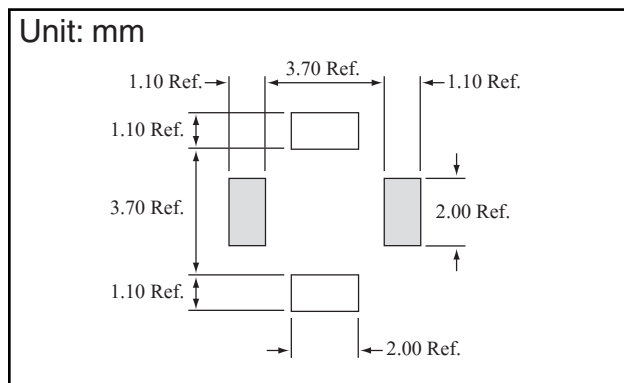
From 1.2 μ H to 100 μ H



CHARACTERISTICS

- Description:** SMD shielded power inductor.
- Applications:** Input/output of DC/DC converters, power supplies for portable communication equipment, camcorders, LCD TVs, car radios, etc.
- Operating Temperature:** -40°C to +105°C
- Temperature Rise:** 40°C Typ.
- Isat:** Based on $\Delta L / L_0A = 35\%$ Typ.
- Irms:** Based on Temp. rise 40°C Typ.
- Resistance to Solder Heat:** 260°C, 10 seconds.
- Inductance Tolerance:** $\pm 30\%$
- Testing:** Inductance is tested on an HP4284A at 100KHz, 0.1V.
- Packaging:** Tape & Reel.
- Marking:** Parts are marked with inductance code.
- Miscellaneous:** **RoHS Compliant.**
- Additional Information:** Additional electrical & physical information available upon request.
- Samples available. See website for ordering information.**

PAD LAYOUT



SPECIFICATIONS

Parts are available in $\pm 30\%$ inductance tolerance only.

| Part Number | Inductance at 100KHz (μ H) | Q. Ref | Q Test Freq. (.Hz) | DCR Typ. (m Ω) | DCR Max. (m Ω) | SRF Typ. (MHz) | Irms Typ. (mA) | Isat Typ. (mA) |
|-----------------|---------------------------------|--------|--------------------|------------------------|------------------------|----------------|----------------|----------------|
| CTSRU5028F-1R2N | 1.2 | 10.0 | 7.96M | 16.8 | 22.0 | 200 | 3500 | 3400 |
| CTSRU5028F-2R2N | 2.2 | 10.0 | 7.96M | 21.0 | 27.0 | 130 | 3200 | 2500 |
| CTSRU5028F-3R3N | 3.3 | 10.0 | 7.96M | 24.0 | 32.0 | 90 | 2800 | 2100 |
| CTSRU5028F-4R7N | 4.7 | 9.0 | 7.96M | 32.0 | 45.0 | 50 | 2200 | 1850 |
| CTSRU5028F-6R8N | 6.8 | 10.0 | 7.96M | 42.0 | 56.0 | 55 | 2000 | 1550 |
| CTSRU5028F-100N | 10 | 18.0 | 2.52M | 63.0 | 85.0 | 25 | 1800 | 1400 |
| CTSRU5028F-150N | 15 | 18.0 | 2.52M | 108.0 | 140.0 | 23 | 1100 | 1000 |
| CTSRU5028F-220N | 22 | 15.0 | 2.52M | 162.0 | 210.0 | 18 | 950 | 850 |
| CTSRU5028F-330N | 33 | 15.0 | 2.52M | 203.0 | 260.0 | 16 | 800 | 680 |
| CTSRU5028F-470N | 47 | 13.0 | 2.52M | 285.0 | 360.0 | 13 | 700 | 620 |
| CTSRU5028F-680N | 68 | 13.0 | 2.52M | 450.0 | 550.0 | 10 | 560 | 460 |
| CTSRU5028F-101N | 100 | 15.0 | 796K | 625.0 | 800.0 | 8 | 470 | 420 |

PHYSICAL DIMENSIONS

| Size | A | B | C | D Typ. | E Typ. | F Typ. | G Typ. |
|--------|-------------------|-------------------|-------------------|--------|--------|--------|--------|
| mm | 5.20 \pm 0.20 | 5.20 \pm 0.20 | 2.80 \pm 0.20 | 1.70 | 1.80 | 3.90 | 2.00 |
| inches | 0.20 \pm 0.0079 | 0.20 \pm 0.0079 | 0.11 \pm 0.0079 | 0.067 | 0.071 | 0.15 | 0.079 |

