

CTGS32F Series

From 1.0 μH to 1200 μH



SPECIFICATIONS

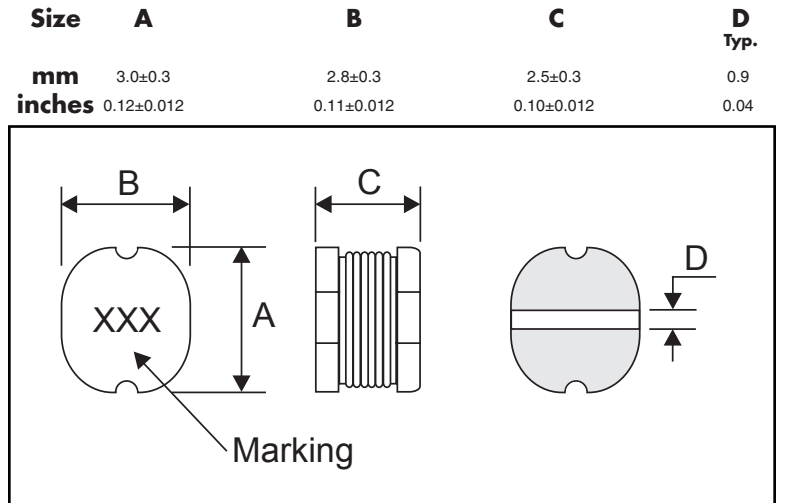
Part numbers indicate available tolerance.
K = $\pm 10\%$, M = $\pm 20\%$

| Part Number | Inductance @100kHz (μH) | Q Ref. | SRF Typ. (MHz) | RDC Max. (Ω) | Irms Max. $\Delta T=40^\circ\text{C}$ (A) | Isat Typ. $\Delta L/L0A=10\%$ (A) |
|--------------|--------------------------------------|-------------|----------------|-----------------------|---|-----------------------------------|
| CTGS32F-1R0M | 1.0 | 20@7.96MHz | 125 | 0.06 | 2.100 | 2.700 |
| CTGS32F-1R2M | 1.2 | 22@7.96MHz | 100 | 0.07 | 2.000 | 2.500 |
| CTGS32F-1R5M | 1.5 | 23@7.96MHz | 95 | 0.07 | 1.900 | 2.300 |
| CTGS32F-1R8M | 1.8 | 23@7.96MHz | 85 | 0.08 | 1.800 | 2.000 |
| CTGS32F-2R2M | 2.2 | 22@7.96MHz | 75 | 0.09 | 1.650 | 1.850 |
| CTGS32F-2R7M | 2.7 | 22@7.96MHz | 72 | 0.10 | 1.500 | 1.700 |
| CTGS32F-3R3M | 3.3 | 23@7.96MHz | 68 | 0.11 | 1.400 | 1.600 |
| CTGS32F-3R9M | 3.9 | 24@7.96MHz | 50 | 0.12 | 1.300 | 1.500 |
| CTGS32F-4R7M | 4.7 | 18@7.96MHz | 45 | 0.15 | 1.200 | 1.350 |
| CTGS32F-5R6M | 5.6 | 18@7.96MHz | 42 | 0.16 | 1.100 | 1.300 |
| CTGS32F-6R8M | 6.8 | 18@7.96MHz | 40 | 0.18 | 1.000 | 1.200 |
| CTGS32F-8R2M | 8.2 | 16@7.96MHz | 35 | 0.20 | 0.900 | 1.050 |
| CTGS32F-100M | 10 | 18@2.52MHz | 34 | 0.25 | 0.800 | 0.900 |
| CTGS32F-120M | 12 | 15@2.52MHz | 33 | 0.28 | 0.750 | 0.850 |
| CTGS32F-150M | 15 | 20@2.52MHz | 32 | 0.40 | 0.650 | 0.800 |
| CTGS32F-180M | 18 | 18@2.52MHz | 28 | 0.46 | 0.580 | 0.750 |
| CTGS32F-220M | 22 | 23@2.52MHz | 22 | 0.66 | 0.520 | 0.650 |
| CTGS32F-270M | 27 | 23@2.52MHz | 20 | 0.75 | 0.480 | 0.550 |
| CTGS32F-330K | 33 | 20@2.52MHz | 18 | 0.85 | 0.420 | 0.500 |
| CTGS32F-390K | 39 | 24@2.52MHz | 18 | 1.12 | 0.380 | 0.450 |
| CTGS32F-470K | 47 | 23@2.52MHz | 17 | 1.27 | 0.360 | 0.400 |
| CTGS32F-560K | 56 | 18@2.52MHz | 16 | 1.45 | 0.340 | 0.350 |
| CTGS32F-680K | 68 | 24@2.52MHz | 14 | 1.85 | 0.300 | 0.320 |
| CTGS32F-820K | 82 | 24@2.52MHz | 12 | 2.10 | 0.280 | 0.300 |
| CTGS32F-101K | 100 | 40@0.796MHz | 10 | 2.85 | 0.260 | 0.280 |
| CTGS32F-121K | 120 | 40@0.796MHz | 10 | 3.20 | 0.220 | 0.250 |
| CTGS32F-151K | 150 | 38@0.796MHz | 9.0 | 4.60 | 0.200 | 0.230 |
| CTGS32F-181K | 180 | 45@0.796MHz | 8.5 | 5.00 | 0.185 | 0.210 |
| CTGS32F-221K | 220 | 40@0.796MHz | 8.0 | 5.70 | 0.170 | 0.190 |
| CTGS32F-271K | 270 | 45@0.796MHz | 7.0 | 8.60 | 0.150 | 0.170 |
| CTGS32F-331K | 330 | 40@0.796MHz | 6.0 | 10.00 | 0.130 | 0.150 |
| CTGS32F-391K | 390 | 40@0.796MHz | 5.5 | 10.80 | 0.120 | 0.140 |
| CTGS32F-471K | 470 | 42@0.796MHz | 5.0 | 14.30 | 0.105 | 0.130 |
| CTGS32F-561K | 560 | 43@0.796MHz | 4.8 | 16.00 | 0.095 | 0.120 |
| CTGS32F-681K | 680 | 43@0.796MHz | 4.3 | 18.00 | 0.085 | 0.110 |
| CTGS32F-821K | 820 | 45@0.796MHz | 4.0 | 22.50 | 0.080 | 0.100 |
| CTGS32F-102K | 1000 | 40@0.252MHz | 3.2 | 26.00 | 0.070 | 0.090 |
| CTGS32F-122K | 1200 | 40@0.252MHz | 3.0 | 30.00 | 0.060 | 0.080 |

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 $+105^\circ\text{C}$
- Inductance Tolerance:** $\pm 10\%$, $\pm 20\%$
- Testing:** Inductance is tested on an HP4285A at specified frequency.
- Packaging:** Tape & Reel.
- Marking:** Marked with inductance code.
- Rated Current:** Based on temp. rise & $\Delta L/L0A=10\%$ Max.
- Miscellaneous:** RoHS Compliant.
- Additional Information:** Additional electrical & physical information available upon request.
- Samples available.** See website for ordering information.

PHYSICAL DIMENSIONS



PAD LAYOUT

