

CTGS137F Series

From 1.5µH to 1,000µH



SPECIFICATIONS

Part numbers indicate available inductance tolerance.
K = ±10%, M = ±20%

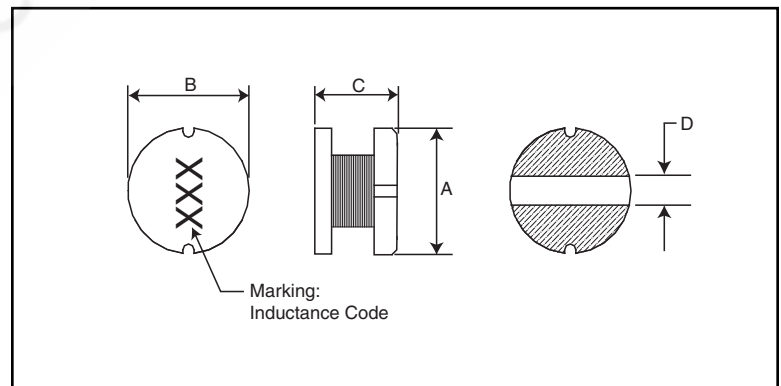
| Part Number | Inductance (µH) | Q Ref. | Q Test Freq. (MHz) | SRF Typ. (MHz) | DCR Typ. (mΩ) | I _{rms} Max. (A) | I _{sat} Typ. (A) |
|---------------|-----------------|--------|--------------------|----------------|---------------|---------------------------|---------------------------|
| CTGS137F-1R5M | 1.5 | 20 | 7.96 | 65 | 5.0 | 9.50 | 20.0 |
| CTGS137F-2R2M | 2.2 | 22 | 7.96 | 50 | 6.0 | 9.00 | 18.0 |
| CTGS137F-2R7M | 2.7 | 24 | 7.96 | 40 | 8.0 | 8.20 | 16.0 |
| CTGS137F-3R3M | 3.3 | 26 | 7.96 | 38 | 8.7 | 7.50 | 15.0 |
| CTGS137F-4R7M | 4.7 | 25 | 7.96 | 36 | 10 | 7.00 | 13.0 |
| CTGS137F-5R6M | 5.6 | 24 | 7.96 | 28 | 15 | 6.50 | 11.0 |
| CTGS137F-6R8M | 6.8 | 24 | 7.96 | 26 | 17 | 6.00 | 10.5 |
| CTGS137F-8R2M | 8.2 | 24 | 7.96 | 24 | 19 | 5.80 | 9.8 |
| CTGS137F-100M | 10 | 22 | 2.52 | 22 | 21 | 5.60 | 9.2 |
| CTGS137F-120M | 12 | 25 | 2.52 | 20 | 30 | 4.80 | 8.0 |
| CTGS137F-150M | 15 | 28 | 2.52 | 17 | 34 | 4.50 | 7.5 |
| CTGS137F-180M | 18 | 28 | 2.52 | 16 | 36 | 4.20 | 7.0 |
| CTGS137F-220M | 22 | 40 | 2.52 | 15 | 47 | 3.60 | 6.5 |
| CTGS137F-270M | 27 | 35 | 2.52 | 11 | 60 | 3.30 | 5.5 |
| CTGS137F-330K | 33 | 35 | 2.52 | 10 | 65 | 3.10 | 5.0 |
| CTGS137F-390K | 39 | 28 | 2.52 | 9.0 | 75 | 2.90 | 4.6 |
| CTGS137F-470K | 47 | 24 | 2.52 | 7.5 | 82 | 2.70 | 4.2 |
| CTGS137F-560K | 56 | 22 | 2.52 | 7.2 | 95 | 2.50 | 3.8 |
| CTGS137F-680K | 68 | 24 | 2.52 | 7.0 | 120 | 2.30 | 3.5 |
| CTGS137F-820K | 82 | 18 | 2.52 | 6.0 | 140 | 2.10 | 3.2 |
| CTGS137F-101K | 100 | 25 | 0.796 | 5.8 | 180 | 1.90 | 3.0 |
| CTGS137F-121K | 120 | 20 | 0.796 | 5.5 | 210 | 1.80 | 2.8 |
| CTGS137F-151K | 150 | 20 | 0.796 | 4.5 | 250 | 1.60 | 2.6 |
| CTGS137F-181K | 180 | 18 | 0.796 | 4.0 | 280 | 1.50 | 2.3 |
| CTGS137F-221K | 220 | 15 | 0.796 | 3.8 | 360 | 1.30 | 2.1 |
| CTGS137F-271K | 270 | 15 | 0.796 | 3.5 | 410 | 1.20 | 1.8 |
| CTGS137F-331K | 330 | 15 | 0.796 | 3.2 | 520 | 1.10 | 1.6 |
| CTGS137F-391K | 390 | 12 | 0.796 | 2.5 | 600 | 1.00 | 1.5 |
| CTGS137F-471K | 470 | 12 | 0.796 | 2.2 | 720 | 0.90 | 1.4 |
| CTGS137F-561K | 560 | 10 | 0.796 | 2.0 | 880 | 0.85 | 1.3 |
| CTGS137F-681K | 680 | 10 | 0.796 | 1.6 | 1000 | 0.80 | 1.2 |
| CTGS137F-821K | 820 | 10 | 0.796 | 1.5 | 1300 | 0.75 | 1.1 |
| CTGS137F-102K | 1000 | 10 | 0.252 | 1.4 | 1600 | 0.65 | 1.0 |

CHARACTERISTICS

- Description:** SMD power inductor
- Applications:** Power supplies for OA equipment, LCD televisions, PC notebooks, portable communication equipment, DC/DC converters
- Operating Temperature:** -40°C to +125°C (temp. rise included)
- Storage Temperature:** -40°C to +125°C
- Inductance Tolerance:** ±10%, ±20%
- Testing:** Inductance is tested on an HP4284A or HP4285A at 100kHz, 0.1V_{rms}
- Packaging:** Tape & Reel
- Marking:** Marked with inductance code
- I_{sat}:** Inductance drop = 10% typ. at I_{sat}
- I_{rms}:** ΔT = 40°C rise typ at I_{rms}
- Miscellaneous:** RoHS Compliant
- Additional Information:** Additional electrical & physical information available upon request
- Samples available. See website for ordering information.**

PHYSICAL DIMENSIONS

| Size | A | B | C | D |
|--------|-------------|-------------|-------------|-------|
| mm | 13±0.5 | 13±0.5 | 7±0.3 | 5 |
| inches | 0.512±0.020 | 0.512±0.020 | 0.276±0.012 | 0.197 |



PAD LAYOUT

