

CTIHSM5832F Series

From 1.0µH to 18,000µH



SPECIFICATIONS

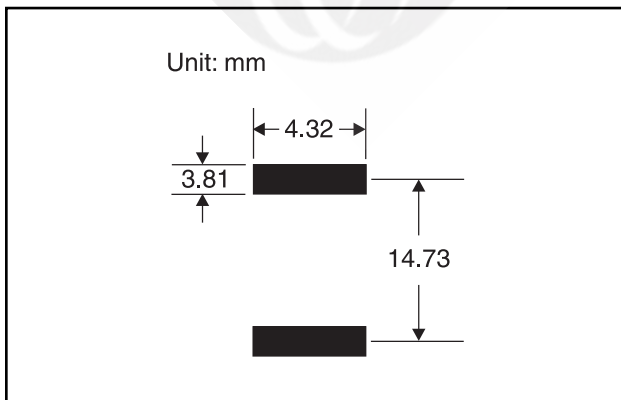
Part numbers indicate tolerance available.
K = ±10%

| Part Number | Inductance (µH) | Test Freq. (kHz) | DCR Max. (Ω) | Saturation Current DC (Max) (A) | Suggested Rated Current AC (A) |
|------------------|-----------------|------------------|--------------|---------------------------------|--------------------------------|
| CTIHSM5832F-1R0K | 1.0 | 1.0 | 0.010 | 9.0 | 6.2 |
| CTIHSM5832F-1R2K | 1.2 | 1.0 | 0.011 | 8.8 | 5.6 |
| CTIHSM5832F-1R5K | 1.5 | 1.0 | 0.012 | 8.7 | 5.0 |
| CTIHSM5832F-1R8K | 1.8 | 1.0 | 0.013 | 8.6 | 4.4 |
| CTIHSM5832F-2R2K | 2.2 | 1.0 | 0.015 | 8.5 | 4.0 |
| CTIHSM5832F-2R7K | 2.7 | 1.0 | 0.017 | 8.4 | 3.7 |
| CTIHSM5832F-3R3K | 3.3 | 1.0 | 0.020 | 8.3 | 3.4 |
| CTIHSM5832F-3R9K | 3.9 | 1.0 | 0.021 | 7.9 | 3.1 |
| CTIHSM5832F-4R7K | 4.7 | 1.0 | 0.023 | 7.4 | 2.8 |
| CTIHSM5832F-5R6K | 5.6 | 1.0 | 0.024 | 7.0 | 2.6 |
| CTIHSM5832F-6R8K | 6.8 | 1.0 | 0.038 | 6.1 | 2.3 |
| CTIHSM5832F-8R2K | 8.2 | 1.0 | 0.047 | 5.1 | 2.0 |
| CTIHSM5832F-100K | 10 | 1.0 | 0.053 | 4.3 | 1.8 |
| CTIHSM5832F-120K | 12 | 1.0 | 0.068 | 3.9 | 1.7 |
| CTIHSM5832F-150K | 15 | 1.0 | 0.078 | 3.5 | 1.6 |
| CTIHSM5832F-180K | 18 | 1.0 | 0.083 | 3.2 | 1.5 |
| CTIHSM5832F-220K | 22 | 1.0 | 0.120 | 2.8 | 1.3 |
| CTIHSM5832F-270K | 27 | 1.0 | 0.140 | 2.3 | 1.2 |
| CTIHSM5832F-330K | 33 | 1.0 | 0.170 | 1.9 | 1.1 |
| CTIHSM5832F-390K | 39 | 1.0 | 0.190 | 1.8 | 1.0 |
| CTIHSM5832F-470K | 47 | 1.0 | 0.215 | 1.77 | .93 |
| CTIHSM5832F-560K | 56 | 1.0 | 0.236 | 1.71 | .90 |
| CTIHSM5832F-680K | 68 | 1.0 | 0.305 | 1.43 | .82 |
| CTIHSM5832F-820K | 82 | 1.0 | 0.357 | 1.14 | .75 |
| CTIHSM5832F-101K | 100 | 1.0 | 0.452 | 0.95 | .68 |
| CTIHSM5832F-121K | 120 | 1.0 | 0.530 | 0.88 | .63 |
| CTIHSM5832F-151K | 150 | 1.0 | 0.609 | 0.82 | .58 |
| CTIHSM5832F-181K | 180 | 1.0 | 0.809 | 0.75 | .54 |
| CTIHSM5832F-221K | 220 | 1.0 | 1.100 | 0.69 | .48 |
| CTIHSM5832F-271K | 270 | 1.0 | 1.270 | 0.64 | .43 |
| CTIHSM5832F-331K | 330 | 1.0 | 1.420 | 0.59 | .38 |
| CTIHSM5832F-391K | 390 | 1.0 | 1.890 | 0.54 | .34 |
| CTIHSM5832F-471K | 470 | 1.0 | 2.210 | 0.49 | .31 |
| CTIHSM5832F-561K | 560 | 1.0 | 2.200 | 0.46 | .28 |
| CTIHSM5832F-681K | 680 | 1.0 | 2.730 | 0.43 | .25 |
| CTIHSM5832F-821K | 820 | 1.0 | 3.780 | 0.40 | .23 |
| CTIHSM5832F-102K | 1000 | 1.0 | 4.200 | 0.37 | .21 |
| CTIHSM5832F-122K | 1200 | 1.0 | 5.510 | 0.32 | .19 |
| CTIHSM5832F-152K | 1500 | 1.0 | 7.350 | 0.29 | .17 |
| CTIHSM5832F-182K | 1800 | 1.0 | 8.660 | 0.25 | .16 |
| CTIHSM5832F-222K | 2200 | 1.0 | 9.710 | 0.22 | .14 |
| CTIHSM5832F-272K | 2700 | 1.0 | 11.29 | 0.20 | .13 |
| CTIHSM5832F-332K | 3300 | 1.0 | 15.60 | 0.18 | .12 |
| CTIHSM5832F-392K | 3900 | 1.0 | 20.74 | 0.16 | .11 |
| CTIHSM5832F-472K | 4700 | 1.0 | 23.10 | 0.14 | .10 |
| CTIHSM5832F-562K | 5600 | 1.0 | 26.40 | 0.12 | .082 |
| CTIHSM5832F-682K | 6800 | 1.0 | 29.90 | 0.10 | .082 |
| CTIHSM5832F-822K | 8200 | 1.0 | 32.20 | 0.08 | .065 |
| CTIHSM5832F-103K | 10000 | 1.0 | 38.10 | 0.06 | .050 |
| CTIHSM5832F-123K | 12000 | 1.0 | 45.20 | 0.04 | .050 |
| CTIHSM5832F-153K | 15000 | 1.0 | 48.30 | 0.04 | .039 |
| CTIHSM5832F-183K | 18000 | 1.0 | 52.50 | 0.04 | .039 |

CHARACTERISTICS

- Description:** SMD molded high current inductors
- Applications:** Excellent power line noise filters, filters for switching regulated power supplies, DC/DC converters, SCR and Triac controls and RFI suppression
- Operating Temperature:** -55° to +125°C
- Inductance Tolerance:** ±10%
- Rated Current:** Based on the inductance change within 10% of initial value and temperature rise of initial value less than 30°C within coil body
- Testing:** Tested on a HP4284A at 1kHz
- Packaging:** Tape & Reel
- Miscellaneous:** RoHS Compliant
- Marking:** Parts are marked with inductance code & tolerance
- Additional Information:** Additional electrical & physical information available upon request
- Samples available. See website for ordering information.**

PAD LAYOUT



PHYSICAL DIMENSIONS

| Size | A | B | C | D | E |
|--------|------|------|-------|-----------|------------|
| | Max. | Max. | Max. | | |
| mm | 16.2 | 8.13 | 7.24 | 2.29±0.5 | 5.08±0.64 |
| inches | 0.64 | 0.32 | 0.285 | 0.09±0.02 | 0.20±0.025 |

