

CT646FYF Series

From 1.0 μH to 1000 μH



CHARACTERISTICS

- Description:** SMD power inductor.
- Applications:** Ideal for a variety of DC/DC converter applications and low profile use.
- Operating Temperature:** -30°C to +100°C
- Inductance Tolerance:** $\pm 10\%$, $\pm 20\%$
- Testing:** Inductance is tested on an HP4285A at 100KHz.
- 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.**

SPECIFICATIONS

Part numbers are marked to indicate tolerance available.

K = $\pm 10\%$, M = $\pm 20\%$

| Part Number | Inductance (μH) | L Test Freq. (KHz) | DCR Max. (Ω) | Rated DC (A) |
|---------------|------------------------------|--------------------|-----------------------|--------------|
| CT646FYF-1R0M | 1.0 | 100 | 0.023 | 2.880 |
| CT646FYF-1R5M | 1.5 | 100 | 0.028 | 2.560 |
| CT646FYF-2R2M | 2.2 | 100 | 0.032 | 2.360 |
| CT646FYF-2R7M | 2.7 | 100 | 0.035 | 2.360 |
| CT646FYF-3R3M | 3.3 | 100 | 0.038 | 2.160 |
| CT646FYF-3R9M | 3.9 | 100 | 0.042 | 2.160 |
| CT646FYF-4R7M | 4.7 | 100 | 0.049 | 1.880 |
| CT646FYF-5R6M | 5.6 | 100 | 0.055 | 1.880 |
| CT646FYF-6R8M | 6.8 | 100 | 0.055 | 1.880 |
| CT646FYF-8R2M | 8.2 | 100 | 0.067 | 1.680 |
| CT646FYF-100M | 10 | 100 | 0.070 | 1.560 |
| CT646FYF-120M | 12 | 100 | 0.080 | 1.440 |
| CT646FYF-150M | 15 | 100 | 0.090 | 1.360 |
| CT646FYF-180M | 18 | 100 | 0.100 | 1.280 |
| CT646FYF-220M | 22 | 100 | 0.120 | 1.170 |
| CT646FYF-270M | 27 | 100 | 0.140 | 1.070 |
| CT646FYF-330M | 33 | 100 | 0.160 | 1.000 |
| CT646FYF-390M | 39 | 100 | 0.190 | 0.910 |
| CT646FYF-470M | 47 | 100 | 0.220 | 0.840 |
| CT646FYF-560M | 56 | 100 | 0.290 | 0.720 |
| CT646FYF-680M | 68 | 100 | 0.340 | 0.660 |
| CT646FYF-820M | 82 | 100 | 0.460 | 0.580 |
| CT646FYF-101M | 100 | 100 | 0.550 | 0.510 |
| CT646FYF-121K | 120 | 100 | 0.670 | 0.420 |
| CT646FYF-151K | 150 | 100 | 0.900 | 0.370 |
| CT646FYF-181K | 180 | 100 | 1.050 | 0.350 |
| CT646FYF-221K | 220 | 100 | 1.350 | 0.290 |
| CT646FYF-271K | 270 | 100 | 1.550 | 0.280 |
| CT646FYF-331K | 330 | 100 | 2.050 | 0.230 |
| CT646FYF-391K | 390 | 100 | 2.300 | 0.215 |
| CT646FYF-471K | 470 | 100 | 2.600 | 0.195 |
| CT646FYF-561M | 560 | 100 | 2.900 | 0.185 |
| CT646FYF-681M | 680 | 100 | 3.400 | 0.170 |
| CT646FYF-821M | 820 | 100 | 4.200 | 0.165 |
| CT646FYF-102M | 1000 | 100 | 5.390 | 0.150 |

PHYSICAL DIMENSIONS

| Size | A Max. | B Max. | C Max. | D | E Max. |
|--------|--------|--------|--------|------------------|--------|
| mm | 7.4 | 7.4 | 5.5 | 2.0 \pm 0.2 | 5.4 |
| inches | 0.29 | 0.29 | 0.22 | 0.08 \pm 0.008 | 0.21 |

