

Common Mode Choke UT20

POWER MAGNETICS



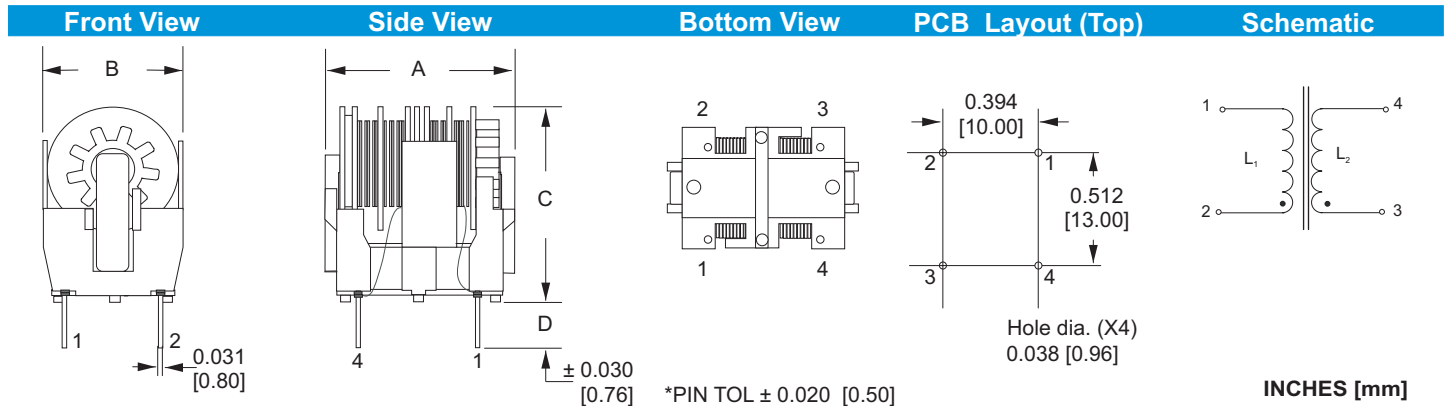
(CMU2014 Series)



MAX. DIM :
L = 23.11 mm
W = 16.51 mm
H = 22.48 mm

- EMI filter for noise suppression in SMPS.
- High self resonance frequency.
- Current Rating up to 2.0 A.
- Small size & high impedance at high frequencies.
- Construction provides 3 mm creepage between coils.
- Dielectric strength of 1800 Vrms between windings.

MECHANICAL SPECIFICATIONS



ELECTRICAL SPECIFICATIONS

MEDIUM Z RANGE - UT20 7K

| FALCO PART NUMBER | RoHS PART NUMBER | L(mH) ¹ min. | Freq. (KHz) | LL(μH) ² max. | DCR (Ω) max. | I _{rms} (Amp) ³ max. | SRF (KHz) typ. | A max. In / mm | B max. In / mm | C max. In / mm | D nom. In / mm |
|-------------------|------------------|----------------------------|----------------|-----------------------------|-----------------|---|-------------------|-------------------|-------------------|-------------------|-------------------|
| U20008 | | 1.70 | 10.0 | 50.0 | 0.1810 | 1.80 | 1300 | 0.910 / 23.11 | 0.650 / 16.51 | 0.885 / 22.48 | 0.150 / 3.81 |
| U20007 | | 8.00 | 10.0 | 190.0 | 0.6100 | 1.10 | 600 | 0.910 / 23.11 | 0.650 / 16.51 | 0.885 / 22.48 | 0.150 / 3.81 |
| | U20027 | 12.00 | 10.0 | 300.0 | 0.9200 | 0.60 | --- | 0.910 / 23.11 | 0.650 / 16.51 | 0.885 / 22.48 | 0.150 / 3.81 |

HIGH Z RANGE - UT20 10K

| FALCO PART NUMBER | RoHS PART NUMBER | L(mH) ¹ min. | Freq. (KHz) | LL(μH) ² max. | DCR (Ω) max. | I _{rms} (Amp) ³ max. | SRF (KHz) typ. | A max. In / mm | B max. In / mm | C max. In / mm | D nom. In / mm |
|-------------------|------------------|----------------------------|----------------|-----------------------------|-----------------|---|---------------------|-------------------|-------------------|-------------------|-------------------|
| U20013 | | 0.82 | 10.0 | 18.8 | 0.0625 | 2.00 | --- | 0.910 / 23.11 | 0.650 / 16.51 | 0.885 / 22.48 | 0.150 / 3.81 |
| U20014 | | 1.20 | 10.0 | 26.9 | 0.0875 | 1.60 | --- | 0.910 / 23.11 | 0.650 / 16.51 | 0.885 / 22.48 | 0.150 / 3.81 |
| U20015 | | 1.80 | 10.0 | 43.6 | 0.1345 | 1.50 | --- | 0.910 / 23.11 | 0.650 / 16.51 | 0.885 / 22.48 | 0.150 / 3.81 |
| U20003* | | 2.30 | 10.0 | 45.0 | 0.1800 | 1.50 | 2100 | 0.910 / 23.11 | 0.610 / 15.49 | 0.885 / 22.48 | 0.140 / 3.56 |
| U20016 | | 2.70 | 10.0 | 64.2 | 0.2000 | 1.10 | --- | 0.910 / 23.11 | 0.650 / 16.51 | 0.885 / 22.48 | 0.150 / 3.81 |
| U20017 | | 3.30 | 10.0 | 77.8 | 0.2240 | 1.10 | 935 | 0.910 / 23.11 | 0.650 / 16.51 | 0.885 / 22.48 | 0.150 / 3.81 |
| U20018 | | 3.90 | 10.0 | 87.3 | 0.2470 | 1.00 | 913 | 0.910 / 23.11 | 0.650 / 16.51 | 0.885 / 22.48 | 0.150 / 3.81 |
| U20019 | | 5.60 | 10.0 | 127.3 | 0.3650 | 0.80 | 712 | 0.910 / 23.11 | 0.650 / 16.51 | 0.885 / 22.48 | 0.150 / 3.81 |
| U20020 | | 6.80 | 10.0 | 152.3 | 0.5070 | 0.70 | 680 | 0.910 / 23.11 | 0.650 / 16.51 | 0.885 / 22.48 | 0.150 / 3.81 |
| U20021 | | 8.20 | 10.0 | 183.0 | 0.5600 | 0.60 | 600 | 0.910 / 23.11 | 0.650 / 16.51 | 0.885 / 22.48 | 0.150 / 3.81 |
| U20005* | | 11.00 | 10.0 | 163.9 | 0.7000 | 0.80 | 600 | 0.910 / 23.11 | 0.650 / 16.51 | 0.885 / 22.48 | 0.140 / 3.56 |
| U20006 | | 16.00 | 10.0 | 300.0 | 0.9200 | 0.70 | 430 | 0.910 / 23.11 | 0.650 / 16.51 | 0.885 / 22.48 | 0.150 / 3.81 |
| U20022 | | 18.00 | 10.0 | 382.8 | 1.0400 | 0.50 | 388 | 0.910 / 23.11 | 0.650 / 16.51 | 0.885 / 22.48 | 0.150 / 3.81 |
| | U20001 | 21.00 | 10.0 | 360.0 | 1.3000 | 0.60 | 440 | 0.910 / 23.11 | 0.610 / 15.49 | 0.885 / 22.48 | 0.150 / 3.81 |
| U20004* | | 22.00 | 10.0 | 372.0 | 1.5000 | 0.56 | 400 | 0.910 / 23.11 | 0.650 / 16.51 | 0.885 / 22.48 | 0.140 / 3.56 |
| U20011* | | 26.00 | 10.0 | 385.0 | 2.0000 | --- | 280 | 0.910 / 23.11 | 0.650 / 16.51 | 0.885 / 22.48 | 0.150 / 3.81 |
| U20002 | | 29.00 | 1.0 | 370.0 | 1.5500 | 0.53 | 290 | 0.910 / 23.11 | 0.610 / 15.49 | 0.885 / 22.48 | 0.150 / 3.81 |
| | U20023* | 33.00 | 10.0 | --- | 2.340 | 0.30 | --- | 0.910 / 23.11 | 0.650 / 16.51 | 0.885 / 22.48 | 0.150 / 3.81 |
| | U20010* | 43.00 | 10.0 | --- | 3.600 | 0.30 | 220 | 0.910 / 23.11 | 0.650 / 16.51 | 0.885 / 22.48 | 0.150 / 3.81 |
| U20012 | | 52.00 | 10.0 | 1335 | 5.400 | 0.25 | 200 | 0.910 / 23.11 | 0.650 / 16.51 | 0.885 / 22.48 | 0.150 / 3.81 |

1. Inductance L tested at 0.25 V.
2. LL tested at 10 KHz & 0.25 V.
3. Temperature rise is 45°C Typ at I_{rms}.
4. Operating Temp. range -25°C to +105°C.
5. L and DCR tested at Ta= 25°C.



RoHS COMPLIANT PRODUCT