

# High Current Toroidal Chokes (HCTC) Common Mode

## Features

- Solid base for stable vertical mounting
- Fixed pin spacing for easy PCB insertion
- Wide range of inductance and current
- Single layer wound coils
- High current capacity
- Excellent EMI suppression

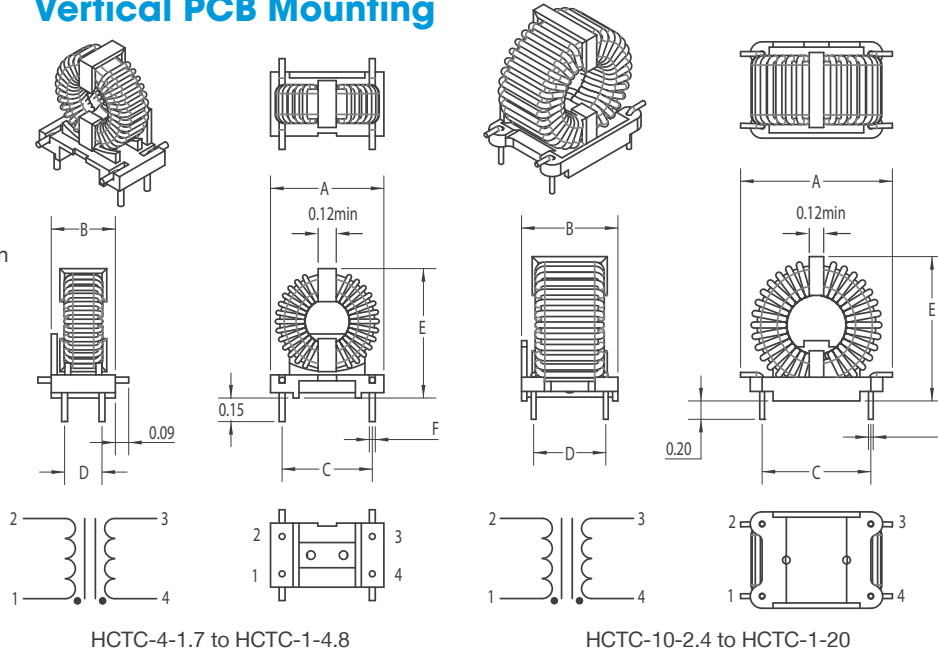
## Applications

- EMI/RFI Filtering for SMPS
- LCD Panels, Computers, Monitors
- DC-DC Converters
- EV Charging Power Supplies

## Industries

- Industrial & Electronic
- Telecom & Power
- Electric Vehicle (EV)

## Vertical PCB Mounting



## Notes

1. Dimensions are in inches
2. Max. current based on 35°C temperature rise. Typ
3. Operating temperature range of -55° to +105°C
4. Dielectric Strength: 1,500V RMS
5. UL 94V-0 rated coil mounting header

## Electro-Mechanical Characteristics



| Part No.      | L (mH) Min. @ 1KHz | L (uH) Typical Leakage | DCR (Ω) Max. | I (A) Max. (2) | Dimension A Max. | Dimension B ±0.010 | Dimension C ±0.015 | Dimension D ±0.015 | Dimension E Max. | Dimension F Max. |
|---------------|--------------------|------------------------|--------------|----------------|------------------|--------------------|--------------------|--------------------|------------------|------------------|
| HCTC-4-1.7    | 4.0                | 27                     | 0.173        | 1.70           | 0.76             | 0.455 max          | 0.600              | 0.250              | 0.900            | 0.040            |
| HCTC-2.5-2.4  | 2.5                | 17                     | 0.090        | 2.40           | 0.76             | 0.455 max          | 0.600              | 0.250              | 0.900            | 0.040            |
| HCTC-1-4.8    | 1.0                | 7.0                    | 0.022        | 4.80           | 0.76             | 0.455 max          | 0.600              | 0.250              | 0.900            | 0.040            |
| HCTC-10-2.4   | 10                 | 45                     | 0.170        | 2.40           | 1.20             | 0.606              | 0.800              | 0.400              | 1.200            | 0.050            |
| HCTC-7-2.8    | 7.0                | 32                     | 0.120        | 2.80           | 1.20             | 0.606              | 0.800              | 0.400              | 1.200            | 0.050            |
| HCTC-5-3.7    | 5.0                | 23                     | 0.070        | 3.70           | 1.20             | 0.606              | 0.800              | 0.400              | 1.200            | 0.050            |
| HCTC-2-6.6    | 2.0                | 9.0                    | 0.022        | 6.60           | 1.20             | 0.606              | 0.800              | 0.400              | 1.200            | 0.050            |
| HCTC-1-10     | 1.0                | 4.5                    | 0.010        | 10.0           | 1.20             | 0.606              | 0.800              | 0.400              | 1.200            | 0.050            |
| HCTC-30-2.3   | 30                 | 136                    | 0.330        | 2.30           | 1.35             | 0.815              | 0.900              | 0.600              | 1.450            | 0.050            |
| HCTC-20-2.9   | 20                 | 95                     | 0.210        | 2.90           | 1.35             | 0.815              | 0.900              | 0.600              | 1.450            | 0.050            |
| HCTC-12-4     | 12                 | 57                     | 0.110        | 4.00           | 1.35             | 0.815              | 0.900              | 0.600              | 1.450            | 0.050            |
| HCTC-8-5.6    | 8.0                | 38                     | 0.055        | 5.60           | 1.35             | 0.815              | 0.900              | 0.600              | 1.450            | 0.050            |
| HCTC-5-8.9    | 5.0                | 25                     | 0.022        | 8.90           | 1.45             | 0.815              | 0.900              | 0.600              | 1.500            | 0.043            |
| HCTC-2.5-12.5 | 2.5                | 12.5                   | 0.011        | 12.5           | 1.45             | 0.815              | 0.900              | 0.600              | 1.500            | 0.053            |
| HCTC-1.2-16   | 1.2                | 6.0                    | 0.006        | 16.0           | 1.50             | 0.815              | 0.900              | 0.600              | 1.530            | 0.060            |
| HCTC-50-2.3   | 50                 | 230                    | 0.450        | 2.30           | 1.55             | 0.815              | 0.900              | 0.600              | 1.650            | 0.050            |
| HCTC-36-2.9   | 36                 | 167                    | 0.300        | 2.90           | 1.55             | 0.815              | 0.900              | 0.600              | 1.650            | 0.050            |
| HCTC-7.3-9.3  | 7.3                | 30.5                   | 0.032        | 9.30           | 1.65             | 0.815              | 0.900              | 0.600              | 1.650            | 0.043            |
| HCTC-4-14.5   | 4.0                | 16                     | 0.012        | 14.5           | 1.70             | 0.917              | 1.200              | 0.700              | 1.650            | 0.060            |
| HCTC-2.4-17   | 2.4                | 9.6                    | 0.008        | 17.0           | 1.70             | 0.917              | 1.200              | 0.700              | 1.650            | 0.067            |
| HCTC-1-20     | 1.0                | 4.0                    | 0.007        | 20.0           | 1.70             | 0.917              | 1.200              | 0.700              | 1.650            | 0.067            |

Custom versions available upon request.

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