

Common Mode Inductor For DC/DC Power supply

Single Layer Windings with Spacers specially designed by Rhombus Industries to provide 3mm Creepage and Clearance for International Safety Compliance.

| PARAMETER | MIN. | TYP. | MAX. | UNITS |
|----------------------------------|------|------|------|-------|
| Inductance @ 0.20 Vrms / 1 kHz | 1.23 | | 1.84 | mH |
| DCR Max. of each Winding | | 3.3 | | mΩ |
| RMS rated Current for 40°C rise. | | | 55 | A |
| Leakage Inductance | | 24 | | μH |
| Dielectric Strength | 1250 | | | Vrms |
| Creepage Between Windings | 3.0 | | | mm |

DO NOT EXCEED RATED RMS CURRENT.

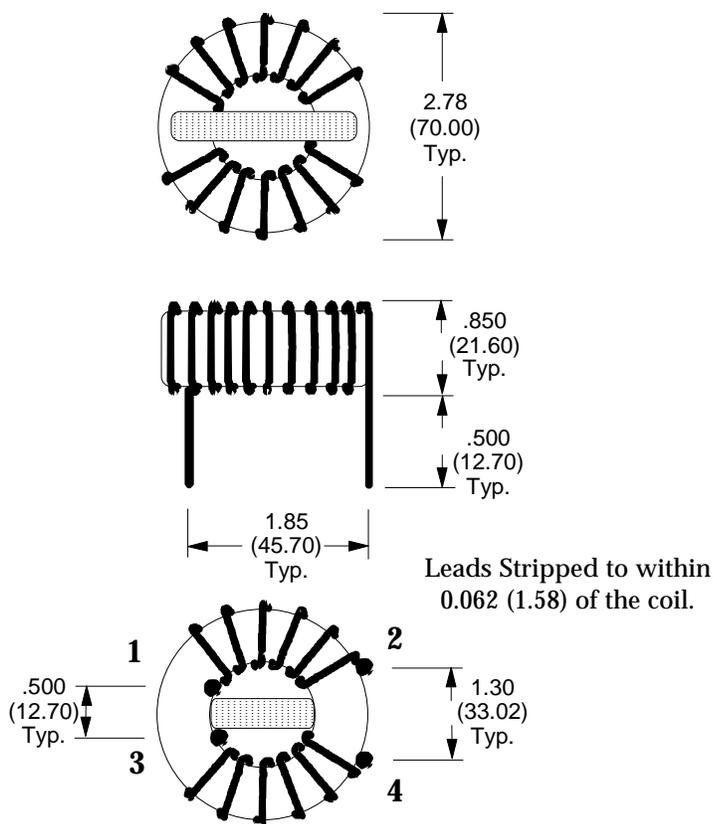
Operating Temperature:
-50°C to +85°C

These parts are made with materials rated for 130°C minimum, and these components can be safely operated up to 130°C. *

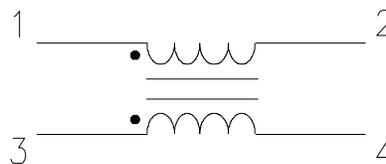
* AMBIENT + TEMPERATURE RISE. In addition, inductance will be effected by an increase in temperature. Typically:

20% increase to 50°C
40% increase to 100°C
65% increase to 130°C

Physical Dimensions - inches (mm)



Schematic Diagram



| FREQUENCY (MHz) | IMPEDANCE (Ω) |
|-----------------|---------------|
| 0.05 | 450 |
| 0.30 | 3500 |
| 0.50 | 5000 |
| 1.00 | 3500 |
| 5.00 | 1700 |
| 10.0 | 960 |
| 20.0 | 2200 |
| 30.0 | 1000 |
| 50.0 | 500 |
| 80.0 | 240 |
| 100 | 175 |

LEADS ARE #10 AWG
Lead Diameter .101(2.56)

| | |
|---------------------------|---------------|
| RHOMBUS P/N: L-670 | |
| CUST P/N: | NAME: |
| DATE: 11/08/01 | SHEET: 1 OF 1 |