

# Modem Transformer



- 1) Low distortion, specifically designed for V.90 applications
- 2) Flat frequency, phase response
- 3) Optimized design for size and performance
- 4) Designed to reflect 600 Ohms on the PRI with 397 Ohms load on the SEC
- 5) Good Total Harmonic Distortion Characteristics
- 6) Customization available
- 7) Insulation : Class A
- 8) 230°C peak infrared reflow temperature rating
- 9) Operating temperature : -40°C to +85°C



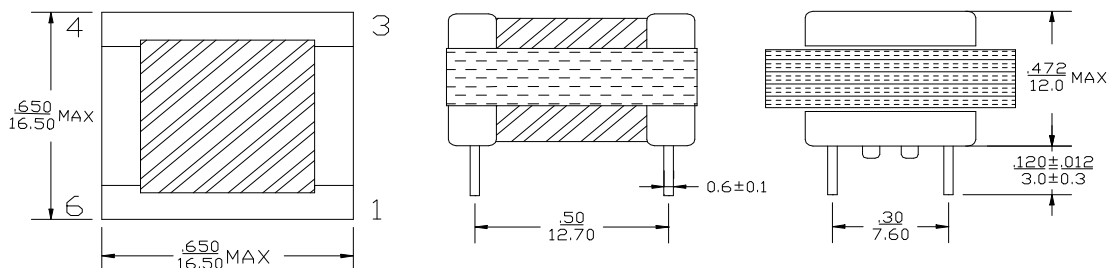
Electrical Specifications @ 25°C --- Operating temperature -40°C To +85°C .

## Part Number: TH04-7056

### Electrical Specifications :

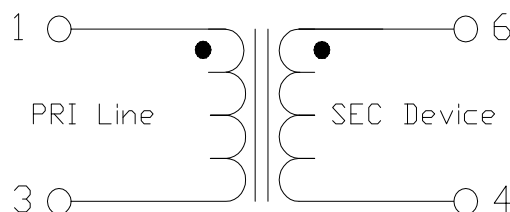
|                                                                                        |                                                                      |
|----------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| 1) D . C . Resistance(20°C) :<br>1 - 3 : 115 Ohms $\pm$ 8%<br>6 - 4 : 91 Ohms $\pm$ 8% | 7) Inductance (Lp) @ 200Hz , 1.0VAC<br>1-3 : 19 H Min (26 H Typ)     |
| 2) Longitudinal Balance @ 200Hz - 4KHz : -80 dB Min.                                   | 8) Leakage Inductance (Ls) @ 200Hz , 1.0V<br>1-3 tie (4+6) : 5mH Max |
| 3) Insertion Loss @ 1KHz , 1V : -2.0 dB Max.                                           | 9) Q value @ 200Hz , 100mV : 1-3:1.2Min                              |
| 4) Frequency Response @ 200Hz - 4KHz : -38 dB Min                                      | 10) Turns Ratio : 1-3 : 6-4 = 1 : 1 $\pm$ 1%                         |
| 6) Hi-pot : 1500VAC , 1mA , 2Sec : PRI - SEC                                           | 11) Total Harmonic Distortion @ 300Hz , -10dBm : - 86dB Max          |

### Mechanical Dimensions ( Unit: inches/mm )



Unless otherwise specified, all tolerances are  $\pm$  0.25

### Schematics



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**DSL Transformer006**