

# 10/100BASE-TX SINGLE PORT SURFACE MOUNT MAGNETICS

Electrical Specifications: @25°C

Isolation Voltage: 1500 Vrms 0.5 mA (PRI to SEC)

Turns Ratio: (1-2-3):(16-15-14)=2CT:1CT  $\pm 3\%$

Turns Ratio: (6-7-8):(11-10-9)=1CT:1CT  $\pm 3\%$

OCL: 350uH Minimum @100KHz 100mV 8mADC

Cw/w: 15pF Typical @100KHz 100mV

Leakage Inductance: 1.2uH Max @100KHz 100mV (Shorted SEC)

PRI DC Resistance: 0.90 Ohms Max

Insertion Loss (100KHz-100MHz): -1.1dB Maximum

Return Loss: -18dB Minimum @500KHz - 30MHz

-15.5dB Minimum @40MHz

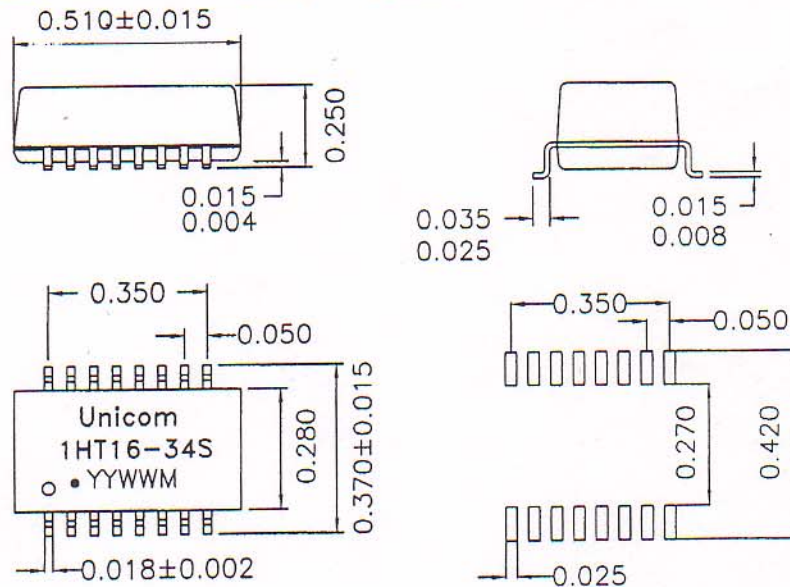
-13.6dB Minimum @50MHz

-12dB Minimum @60MHz - 80MHz

CMRR: -40dB Typical @100KHz - 100MHz

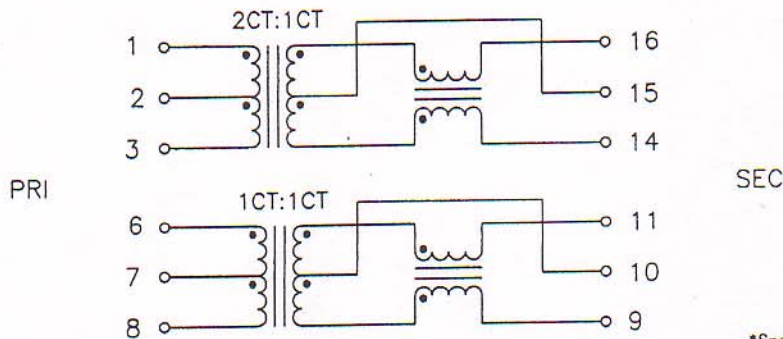
Crosstalk: -40dB Minimum @100KHz -100MHz

Mechanicals:



Schematics:

SUGGESTED PCB PAD LAYOUT



\*Specification Subject to Change Without Notice

|                   |                    |                                                                        |           |       |                |
|-------------------|--------------------|------------------------------------------------------------------------|-----------|-------|----------------|
| P/N:<br>1HT16-34S | DIMENSIONS IN INCH | Unless otherwise specified<br>Dim. Tolerances are:<br>.xxx $\pm 0.010$ | REV: A    | DRWN: | DATE: 03-12-02 |
|                   | SCALE: NONE        |                                                                        | PAGE: 1/1 | APPD: | DATE:          |

Unicom Electronic Corp. • Tel 516-767-8320 • Fax 516-767-7147