

10/100BASE-TX Single Port

Surface Mount Magnetics

For POE Application

Electrical Specifications: @25°C

Isolation Voltage: 1500 Vrms (INPUT to OUTPUT)

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

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

OCL: 350uH Minimum @100KHz 100mV 8mA DC

Rise Time: 2.5ns Typical

Cw/w: 20pF Typical @100KHz 100mV

Leakage Inductance: 0.4uH Maximum @100KHz 100mV

Insertion Loss (100KHz-100MHz): ≤ 1.2 dB Maximum

Return Loss: -18dB Minimum @1MHz - 30MHz

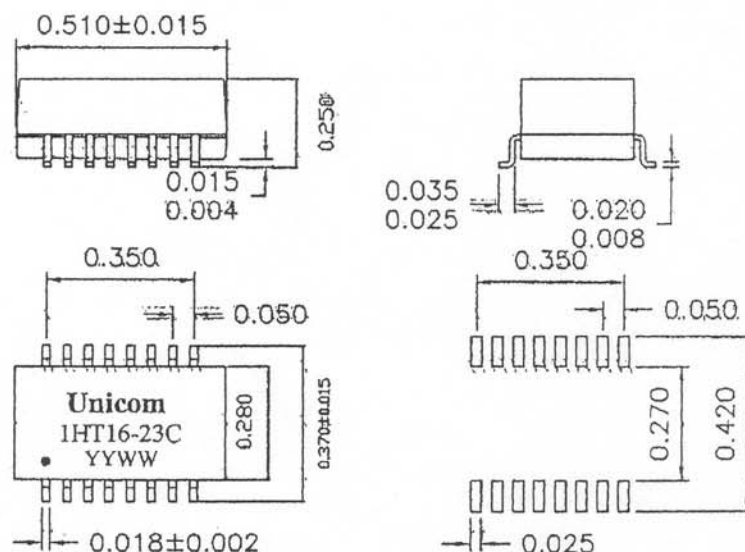
-15dB Minimum @40MHz - 50MHz

-12dB Minimum @60MHz - 80MHz

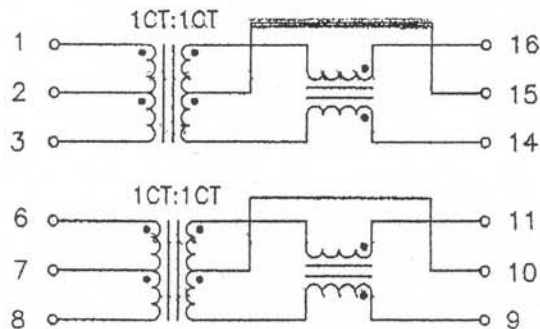
CMRR: -40dB Typical @100KHz -100MHz

Crosstalk: -38dB Minimum @100KHz -100MHz

Mechanicals:



Schematics:



SUGGESTED PCB PAD LAYOUT

P/N:	DIMENSIONS IN INCH	Unless otherwise specified	REV: A	DRWN:	DATE: 04-05-03
1HT16-23C	SCALE: NONE	Dim. Tolerances are: ... ± 0.010	PAGE: 1/1	APPD:	DATE:

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