



TC8235GIT Ground Loop Isolation Transformer

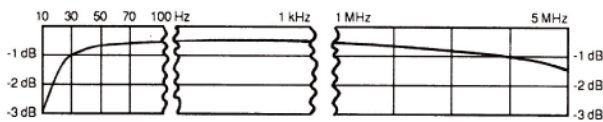


- ▶ Ground isolation for 75 Ohm video/data lines
- ▶ 10 Hz to 7 MHz bandwidth
- ▶ Low insertion loss
- ▶ Insulated BNC connectors
- ▶ Excellent discrimination against power line inter-ground potentials
- ▶ Easy installation

The TC8235GIT is a one-to-one isolation transformer for 75 Ohm coax video/data lines. These units are designed to eliminate the effects of power line and spurious noise potentials between ground points on transmitted signals.



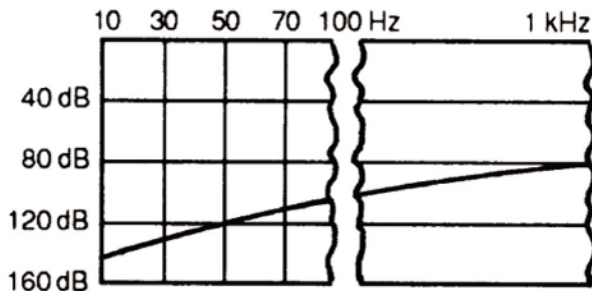
Installation/Configuration Notes



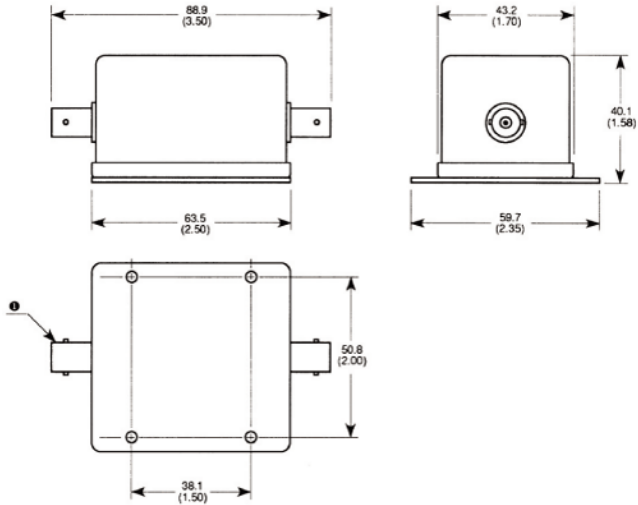
Signal Transmission

Circuit Diagram of Transformer

Input 75 Ohm UNB
Output 75 Ohm UNB



Ground Isolation



Dimensional Outline in mm (inches)

- 1 Insulated BNC Connector (2)

Technical Specifications

Electrical

Impedance Levels 75 Ohm unbalanced, input and output

Insertion Loss 0.5 dB at 1 kHz

Return Loss Better than 20 dB, 120 Hz to 5 MHz

Sine Wave Transmission(Bandwidth)

Amplitude Flat loss is 0.45 dB maximum at 15 kHz, 3 dB down relative mid-frequency response at 10 Hz and 7 MHz

Phase Linear with slope of 18 MHz, 1 MHz to 5 MHz

Ground Isolation $E_n/E_o = 115$ dB at 60 Hz (decreases with frequency at 6 dB/octave to 30 dB minimum at 1 MHz)

Dielectric Withstanding Voltage

500 Vrms, 60 Hz (from connectors to case and each other)

Mechanical

Weight 223 g (0.5 lb)

Finish Black

Ordering Information

TC8235GIT Ground Loop Isolation Transformer 899380018861

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