COPPERHEAD HIGH SPEED SINGLE TRANSFORMER

Military/Aerospace Grade



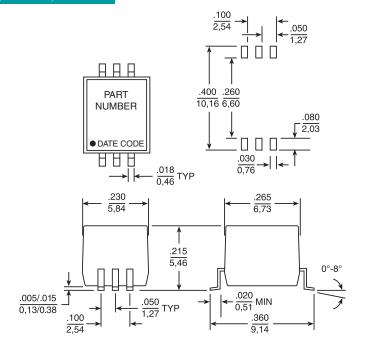


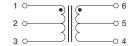
- Compliant with ANSI X3T111, Fiber Channel, FC-PH-3 for quarter/full speed applications, SMPTE, IEEE1394 Firewire
- 🛖 Moisture sensitivity Level 3
- Pick and place compatible
- IC grade package withstands 225°C peak Temperature profile
- 📭 Operating Temperature -55°C to +125 °C

Electrical Specifications @ 25°C - Operating Temperature -55°C to +125°C									
Part Number	Turns Ratio (±5%)	Primary Inductcance (µH MIN)	Risse Time @20 & 80% (pS MAX)	DCR (Ω MAX)	Hi-Pot (Vrms MIN)	Insertion Loss (dB MAX)	Application Nominal Bit Rate (Mbaud)		
T-1062ACT	1CT : 1CT	3.75	280.000	0.2	1500	-2.00	1,062.5 (full speed)		
T-1250ACT	1CT : 1CT	3.75	280.000	0.2	1500	-2.00	1,250 (full speed)		
T-1485ACT	1CT : 1CT	3.75	280.000	0.2	1500	-2.00	1,485 (full speed)		

Mechanical Schematic

T-1062ACT, T-1250ACT, T-1485ACT





NOTE: COPLANARITY IS 0.004° (0.102MM) MAXIMUM Dimensions: Inches

Unless otherwise specified, all tolerances are ± .005

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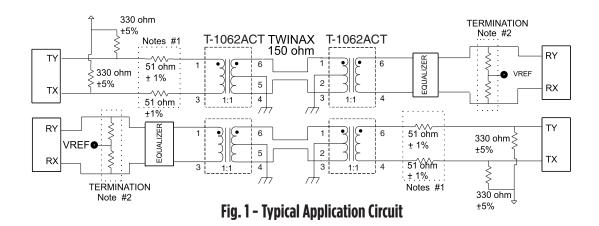
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Application Notes

Pulse Specialty Components has designed Fibre Channel dual transformers specifically for point to point coupling to 150 twinax cable. The isolation transformers protect the station from static charges that may develop on the cable, and prevents ground loop currents from being transferred between stations. The devices have also been designed to provide common mode rejection within the transmission band and

thus reduce EMI. The wide bandwidth of these devices minimizes data dependent jitter by providing fast signal rise times. Low-end bandwidth also minimizes base-line wander, another contributor to jitter. The dual package allows connection of both transmit and receive channels, as shown in the application circuit below. Surface-mount packaging also allows a cost-effective solution.



- 1. The transformer, 51Ω resistors, and the impedance of the driver are matched to achieve the best return loss (S11) for the transmitter of the 150Ω system.
- 2. The total impedance of termination resistor network is 150 Ω .

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- When laying out PCB, transmission line methods must be utilized to maintain return loss and signal integrity. Transformer must be located within .50" of the DB9 connector.
- 4. It is recommended that the center tap (CT) of transformer(s), cable side, be connected to earth/chassis (cable shield) ground either directly or via a transient voltage suppressor (TVS) type component and earth/chassis ground should be "AC-coupled" to signal (digital) ground through a .027uF, 500V capacitor.

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