



### ANALOG/DIGITAL FIBER OPTIC LINK

- ACCEPTS ANALOG/DIGITAL INPUTS
- TRANSPARENT TRANSMISSION DC AND AC INFORMATION
- ADJUSTABLE GAIN/OFFSET AT RECEIVER
- LOW COST



### DESCRIPTION:

The **Model 732T/R** Fiber Optic Link can be modulated with various analog/digital signals from DC to 10MHz to form a versatile and transparent fiber optic transmission system. Typical applications include short haul ( $\leq 1\text{km}$ ) analog/digital data links and EMI isolation applications in which the use of conventional wire is undesirable.

### SPECIFICATIONS:

#### Link Bandwidth

Range DC to 10MHz (analog BW)  
Flatness  $\pm 3\%$

#### Transmitter Input

Signals Sinewave/pulses or DC  
Amplitude  $\pm 2.5\text{V}$  (add -2.5 to part number)  
0 to 5V (add -5 to part number)  
Impedance  $50\Omega$  (add -50 to part number)  
 $33\text{k}\Omega$  (add -33k to part number)  
Input (Electrical) SMA  
Output (Optical) ST connector  
Wavelength 850nm

Optional Fiber ST to ST (Ceramic), 62.5/125 $\mu\text{m}$  multimode, PVC Simplex, 10 meters (add -10M to part number)

#### Receiver Output

Amplitude  $\pm 2.5\text{V}$  or 0 to 5V, non-inverting  
Load  $> 1\text{k}\Omega$   
Output (Electrical) SMA  
Gain/Offset Trimpot adjustable  
Dynamic Range 55dB peak signal to rms noise  
Input (Optical) ST connector

#### Power

$\pm 15\text{VDC}$  at 50mA typical for both transmitter and receiver

#### Temperature

0° to 70°C

#### Size

Transmitter 2.96" x 1.00" x 0.61"  
Receiver 2.96" x 1.00" x 0.61"

#### Weight

20 grams each



*Specifications subject to change without notice.*

### APPLICATIONS:

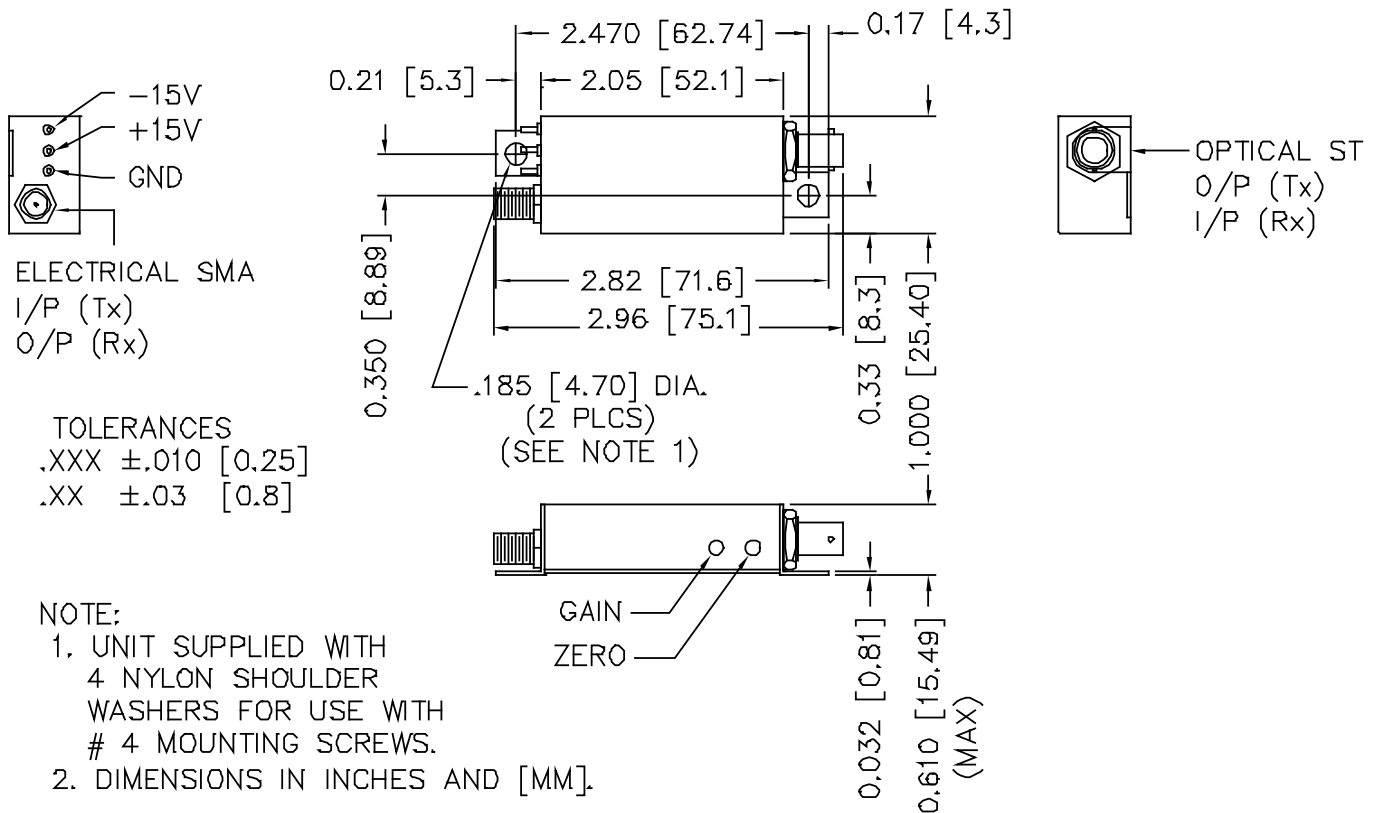
*Short Haul, EMI Isolation, Audio/Video Link*

Typical Part Number: **732T/R-2.5-50-10M =**

Transmitter: Electrical Input Connector: SMA  
 Input Amplitude:  $\pm 2.5V$   
 Input Impedance:  $50\Omega$   
 Optical Output Connector: ST

Receiver: Optical Input Connector: ST  
 Electrical Output Connector: SMA

Optional Fiber: ST to ST (Ceramic)  $62.5/125\mu m$ , multimode,  
 PVC Simplex, 10 meters with mating  
 connector terminations



A change in signal of  $\pm 25\%$  may result when cable and/or ST connectors are moved. Receiver gain and offset should be calibrated each time the fiber and/or connectors are moved. Permanent bonding should be considered if greater accuracy is required.