

# MIBT/SIBT M3T-25

# MIBR/SIBR M3T-25

Fiber Optic VSB/AM Transmitters/Receivers - **5 Channels**



MIBT/MIBR  
Sample Rack Mount



SIBT/SIBR  
Sample Stand Alone

### ○ Features & Benefits

- Low Cost
- 5-250 MHz RF bandwidth
- SIBT/SIBR Designed for Stand Alone Applications
- MIBT/MIBR fits in our MIRC-12 and FIRC-3 Rack Chassis' for 19 Inch Rack Mounting
- Up to Five Channels Over a Multimode Fiber
- Distance to 3 km

### ○ Specifications

The MIBT/SIBT-M3T-25 series fiber optic transmitters along with the MIBR/SIBR-M3T-25 receivers provide a high-quality system for transporting up to five TV channels over a multimode optical fiber. With an RF bandwidth from 5 MHz to 250 MHz, these units can transmit sub-band, low-band, FM, mid-band or high-band channels. Optimum performance is achieved when the channel (frequency) plan is within a single octave of bandwidth. The system can transmit signals from a VCR, camcorder or cable television feed over a distance of 3 km on one multimode fiber. Tri-color LED's are used to indicate optimum RF input level on the transmitters and optical input status on the receivers. Green indicates an acceptable level, red is too high and amber is too low. These products are recommended for use with multimode fibers only and require a minimum fiber bandwidth of 250 MHz.

#### LINK @ 25 °C, Single-mode Fiber

- Bandwidth: 5-250 MHz
- Operating Wavelength: 1310 nm
- CATV Channels: 5
- CNR (-7 dBm Input, 5 Ch. Load): 47 dB
- CSO (5 Ch. Load): -71 dB
- CTB (5 Ch. Load): -55 dB
- Input/Output Impedance: 75 Ohms
- Operating Temperature Range: +10 to +40 °C
- Weight: 6 oz, 170 g (per unit)
- Physical Dimensions
  - SIBT (WxHxL): 3.75 x 2.95 x 1.12 in  
146 x 74 x 28 mm
  - MIBT (WxHxL): 1.15 x 3.5 x 7.5 in  
29 x 89 x 191 mm

#### Transmitters

- RF Input Level (5 Channel): +6.0 dBmV
- Optical Output: -7 dBm
- Power Supply Voltage:
  - MIBT: 12 VDC
  - SIBT: 9 VDC
- Power Dissipation: 1.8 W

#### Receiver

- Optical Input Range: -16 to -6 dBm
- Power Supply Voltage: -12 VDC
- Power Dissipation: 1.8 W

#### Connectors

- Optical Output: ST™
- RF Input: "F"
- Power Supply
  - SIBT: ACCS-PS-90 (BT Stock No. 7417)
  - SIBR: ACCS-PS-120 (BT Stock No. 7419)
  - MIBT/MIBR:
    - MIPS-12C (BT Stock No. 7722C)
    - Power Supply and MIRC-12V (BT Stock No. 7715)
    - Chassis

### ○ Ordering Information

Model	Description
SIBT-M3T-25	Fiber Optic Transmitter, 5 Channel 5-250 MHz, Multimode, 1310 nm, ST Connector, -7 dBm Optical
SIBR-M3T-25	Fiber Optic Receiver, 5 Channel 5-250 MHz, Multimode, 1310 nm, ST Connector
MIBT-M3T-25	Fiber Optic Transmitter, 5 Channel 5-250 MHz, Multimode, 1310 nm, ST Connector, -7 dBm Output
MIBR-M3T-25	Fiber Optic Receiver, 5 Channel 5-250 MHz, Multimode, 1310 nm, ST Connector