

LightHouse Series

FIBT-10-1550

Fiber Optic 1550nm VSB/AM Transmitter

The Blonder Tongue FIBT-10-1550 transmitter used in conjunction with other LightHouse Series FTTH products provides a robust system for transporting broadband CATV signals in a PON (passive optical network) system architecture. The transmitter has a frequency bandwidth of 48- 870 MHz that accommodates a variety of different modulation formats such as AM/VSB, 8VSB, QAM, QPSK, etc. The FIBT transmitter utilizes a direct modulated high-power, low noise 1550nm distributed feedback (DFB) laser diode. An optical isolator protects the laser from optical reflections in the transmission path. This ensures high CNR, excellent linearity and consistent link performance. The FIBT-10-1550 transmitter is EIA 19" rack mountable and has a height of 1.75" (1RU).

- 48-870 MHz Bandwidth
- 1550 Nm, Single Mode With SC/APC Connector
- 10 dBm Optical Output Power
- LED's For Quick Assessment Of RF Input, Laser And Cooler Status
- Status/alarm Jack On Rear Panel For Monitoring 5 Key Parameters



**BLONDER
TONGUE**
LABORATORIES, INC.



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○ Features & Benefits

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○ Specifications

Optical:

Operating Wavelength: 1550 nm
Optical Output Power: +10 dBm
Side Mode Suppression Ratio (SMSR): 30 dB
Back Reflection: -50 min. dB

RF:

Bandwidth: 48 to 870 MHz
Input Return Loss: \geq 16 dB @ 75 Ohm
RF Input Level (110 Ch. Load): + 18 dBmV/Ch
CNR (-6 dBm Rx Input, 77 Ch. Load + QAM 550-870 MHz @ -6dB Ref. Analog): \geq 50 dB
CTB: \geq 68 dB
CSO: \geq -65 Db

Environment:

Operating Temperature Range: 0 to +45 °C

Electrical:

Power Input: 110/220 VAC, 50/60 Hz
Power Consumption: 25 W

Mechanical:

Dimensions: 19 W x 1.75 H x 8.25 D in (482.6 x 44.5 x 209.55 mm)
Weight: 6 lbs, 2.72 kg
Connectors: RF Input: "F"
Optical Output: SC/APC

○ Ordering Information

Model	Stock No.	Description
FIBT-10-1550	7465	Fiber Transmitter 1550nm, +10 dBm , 48-870 MHz