

TFT13-15 Fiber Optic Transmitter

TFT13-15 Fiber Optic, 1310 nm transmitters with bandwidth of 47-1220 MHz

The TFT13-15 optical transmitter is for any broadband application where a stable high performance transmitter is required such as in FTTX applications. The TFT13 transmitters have a wide RF input window of 6 to 41 dBmV with a AGC function to ensure a stable optical output level with a 15 dBm laser. Powering is by a 24 VDC adapter (included) which uses a F Male type fitting to ensure a reliable connection.



Features

- Wide RF Bandwidth to 1220 MHz to support newer DOCSIS deployments
- Rack mount with our TFTRMK-3
- Rugged Diecast Aluminum housing Wide RF input window 6 to 41 dBmV
- 24VDC Powered with supplied P/S
- F Female input connector for power
- F Female RF input and test point
- SC/APC Optical Connector
- Compact 8" x 5.5" x 1.5" size



The TFT13-15 fiber optic transmitters are suited for TV signal distribution systems where distribution by fiber is preferred or necessary. When paired with a fiber optic receiver such as a TIN-40 node you have a robust and reliable optical network for your TV signal distribution. When used with fiber optic couplers you have the ability to distribute to multiple locations from a single transmitter.

You can also build Two-way networks for when data services are deployed using DOCSIS. Deploying a 2-way network is easily accomplished using the TIN40RD31 Node which has built in 3 dBm Reverse transmitter and the TRN-100 return path optical receiver.

Ordering Information

Model	Description	Part Number
TFT13-15	15 dBm Fiber Optic Transmitter	TCE48500150
TFTRMK-3	Rack mount	TCE17601140

TFT13-15 Fiber Optic Transmitter**Specifications**

Optical Output Power	15 dBm (31.6 mW)
Frequency Range	47-1218 MHz
Frequency Response	±1.0 dB
RF Ports Impedance	75Ω
RF Input Return Loss	≥16
Test Point Return Loss	≥18 dB for 5-40 MHz ≥18 dB, -1.5 dB/oct for 40-1218 MHz
Wide RF Input Range	7.35 dBmV (67-95 dBuV)
Recommended RF Input Level	19 dBmV/Channel
CSO	≥62 dB*
CTB	≥62 dB*
Test Point	-20 dB
Power Supply Voltage	24VDC
Power Consumption	11W (typically)
Operation Temperature	-4° to 130°F (-20° to 55°C)
Operating Humidity	5-95% Non Condensing
Power Supply Connector	F Female
Input Connector	F Female
Test Point Connector	F Female
Optical Connector	SC/APC
Continuous Operation of the AGC	
Laser Current External Test Point	1V corresponds 50mA
Laser Output Power External Test Point	0.1V corresponds 1mW
Dimensions	8 x 5.5 x 1.5" (203 x 140 x 38 mm)
Weight	2 lbs (1.8 kg)

(1) - 42 ch CW, according to CENELEC 42, 3,5% OMI, 0dBm input - test receiver)