

TFT13 Series Fiber Optic Transmitter

TFT13-* Fiber Optic, 1310 nm transmitters available with 3 dBm, 6 dBm, 8 dBm, 10 dBm and 12 dBm optical output lasers with bandwidth of 47-1220 MHz

The TFT13 series optical transmitter is for any broadband application where a stable high performance transmitter is required such as in FTTH 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 DFB lasers. Output is on a SC/APC optical connector with 5 different output levels available; 3 dBm, 6 dBm, 8 dBm, 10 dBm and 12 dBm. The AGC and Manual Gain Control is accomplished by use of 3 front panel buttons and an LCD display. Powering is by a 12 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
- 5 optical output levels to choose from: 3, 6, 8, 10 and 12 dBm
- Rugged Diecast Aluminum housing with integral heat sinks for optimum operation and no Fans to fail or ingest dust
- Manual or AGC Operation
- Wide RF input window 6 to 41 dBmV
- 12V Powered with supplied P/S
- F Female input connector for power
- F Female RF input and test point
- SC/APC Optical Connector
- Compact 8-1/8" x 5" x 1-3/4" size

Ordering Information

Model	Output Level	Part Number
TFT13-3	3 dBm	TCE48100050
TFT13-6	6 dBm	TCE48100060
TFT13-8	8 dBm	TCE48100070
TFT13-10	10 dBm	TCE48100080
TFT13-12	12 dBm	TCE48100090

The TFT13 series 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.

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SPECIFICATIONS

TFT13-3, 6, 8, 10 & 12 dBm Optical Transmitters

Parameters	Details
Frequency Range	45-1218 MHz
Frequency Response	± 1.0 dB
Input Impedance	75 Ω
Input Return Loss	18 dB @47MHz -1,5dB/oct
RF Input level (OMI 3,3%/CH)	17-35 dBmV (with AGC)
RF Input Mode	AGC/MGC
RF Attenuation Range (MGC)	0-35 dB
RF Test Point (Input)	-20 dB
Test Point Connector Type	F female
CNR(1)	52 (typical)
CTB(1)	<-64 dBc
CSO(1)	<-60 dBc
Operating Temperature	14 to 122 °F (-10. to 50° C)
Operatinf Humidity	5-95 %
Power Supply	12 VDC
Power Consumption	5 Watts (max)
Power Connector	F female
Optical Wavelength	1310 nm
Laser Type	DFB 3,6,8,10 or 12 dBm
Optical Connector Type	SC/APC
Dimensions	8.8 x 6.6 x 2.5" (224 x 168 x 64 mm)
Weight	4 Pounds (1.8 Kg)

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