

Microwave Photonic Systems, Inc. 888-868-8967

MPS-800TX

Forward Path

Optical Transmitter

(used with MPS-850RX)

Applications

- CATV Return Path Link**
- Interfacility Link Remoting**
- Frequency Reference Distribution**
- SATCOM Uplink & Downlink Remoting**
- IF Distribution, 70 MHz/140 MHz**
- HF & VHF Signal Transmission**

Features

- Compatible with FC and SC Connectors**
- Housed in Low Profile 19" Rack Mountable Drawer**
- Accommodates up to Five Independent Receivers per 1U Enclosure**
- RF Test Point: -20dB**
- Auxiliary Data Channel per Receiver (opt)**
- 1 Year Full, 2 Year Limited Warranty**

Specifications

Operating Wavelength	1310.0 nm +/- 20 nm
Output Power	6 mW (min)
Bandwidth	40 MHz – 860 MHz
Flatness	±1.0 dB
Input Level	35.0 dBmV (max)
Return Loss	-14.0 dB (min)
RF Impedance	75 Ohm
C/N	>52 dB (Ch BW=5MHz)
CSO	>60 dB (OMI=3.7%, 80 Ch Loading)
CTB	>65 dB (OMI=3.7%, 80 Ch Loading)
Alarms & LEDs	Optical Power Failure, Power Supply
Monitors	Optical Power
Operating Temperature	0.0°C - 60.0°C
Power Consumption	50 W
Weight	15 lbs. (max)
Dimensions	19"(w) x 12"(l) x 1.75"(h)
Line Power	120 VAC, 60Hz

Description

The OFW-800TX Forward Path Optical Transmitter is designed to provide transmission of Telephony, High Speed Internet and analog signals in the 40 MHz – 860 MHz range over broadband fiber optic networks from a single head-end point or hub to multiple distribution nodes within the Hybrid Fiber/Coax (HFC) network. The OFW-800TX Forward Path Optical Transmitter is offered in a standard 19 inch, 1U rack mountable unit or in configurations such that it may be placed in a Head-End cabinet, a DTX Chassis or an Out-side Plant optical node. The robust system design has a high MTBF with an internal system architecture allowing for components to be easily expanded in order to meet the changing needs of the HFC network. The OFW-800TX Forward Path Optical Transmitter can operate at industry standard wavelengths required for operation and successful integration to all commercial CWDM or DWDM systems. The OFW-800TX Forward Path Optical Transmitter can be integrated with other MPS products to provide flexible system configurations and expansion. The OFW-800TX Forward Path Optical Transmitter, when coupled with the OFW-800RX Forward Path Optical Receiver, the MPS-2300 Optical Splitter and the MPS-2700 Wavelength Division Multiplexer (WDM) provides a highly reliable forward path link in HFC networks. In addition, both the OFW-800TX Forward Path Optical Transmitter and OFW-800RX Return Path Optical Transmitter can support the simultaneous transmission of network management information over an auxiliary data channel facilitating system diagnostics reporting, network monitoring and a means of seamless redundancy switching. The OFW-800TX and OFW-800RX are offered in optional 1 GHz configuration to allow for expanded data capability necessitated by industry progression to providing multi services.

www.b2bphotonics.com
 Microwave Photonic Systems, Inc.
 882 South Matlack St., Unit 104
 West Chester, PA 19382



Toll Free: 888-868-8967
 Phone: 610-344-7676
 Fax: 610-344-7110
 e-mail: info@b2bphotonics.com