

microwave photonic systems

MPS-800TX

Forward Path Optical Transmitter (used with MPS-850RX)



Designed to provide transmission of Telephony, High Speed Internet and analog signals in the 40 MHz – 860 MHz range over broadband fiber optic networks

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 Outside 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 diagnostic 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.

Information: Call us toll-free at 888-868-8967 or email info@b2bphotonics.com

Microwave Photonic Systems, Inc.

1155 Phoenixville Pike, Unit 106, West Chester, PA 19380, Toll-Free: 888-868-8967

Phone: 610-344-7676, Fax: 610-344-7110, E-mail: info@b2bphotonics.com, Internet: b2bphotonics.com

100204 CAGE 1A9M1

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
- Low Noise RF Front-end (opt)
- RF Test Point: -20 dB
- Auxiliary Data Channel per Receiver (opt)
- 1 Year Full, 2 Year Limited Warranty

MPS-800TX

Forward Path Optical Transmitter (used with MPS-850RX)

Specifications

Optical/General

| | |
|------------------------|-------------------------------------|
| Operating Wavelength: | 1310.0 nm \pm 20 nm |
| Output Power: | 6 mW (min) |
| Bandwidth: | 40 MHz to 860 MHz |
| Flatness: | \pm 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 = 5 MHz) |
| 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 to 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, 60 Hz |

