

microwave photonic systems

MPS-850RX

Forward Path Optical Receiver (used with MPS-800TX)



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-800RX Forward Path Optical Receiver 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-800RX Forward Path Optical Receiver is offered in a standard 19 inch, 1U rack mountable unit or in other configurations such that it may be placed in a Head End cabinet, a DTX Chassis, or an Outside Plant optical node. The OFW-800RX Forward Path Optical Receiver can operate at industry standard wavelengths required for operation and successful integration to all commercial CWDM or DWDM systems. The OFW-800RX Forward Path Optical Receiver can be integrated with other MPS products to provide flexible system configurations and expansion. The OFW-800RX Forward Path Optical Receiver, when coupled with the OFW-800TX, Forward Path Optical Transmitter, 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-800RX Forward Path Optical Receiver and OFW-800TX 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-800RX and OFW-800TX are offered in optional 1GHZ configuration to allow for expanded data capability necessitated by industry progression to providing multiple services.

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

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

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

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Specifications

RF/Optical

Operating Wavelength:	1290.0 nm to 1600.0 nm
Input Optical Power:	3.0 dBm (max)
RF Bandwidth:	40 MHz to 860 MHz
Flatness:	± 1.0 dB
Return Loss:	<-15.0 dB (min)
RF Impedance:	75 ohm
Output Level:	32 dBmV (max) (OMI = 3.7%)
C/N:	> 60 dB (OMI = 3.7%, Opt Pwr = -3 dB, Ch BW = 5 MHz)
CSO:	> 65 dB (OMI = 3.7%, Opt Pwr = +3 dBm, 80 Ch Loading)
CTB:	> 65 dB (OMI = 3.7%, Opt Pwr = +3 dBm, 80 Ch Loading)
Alarms & LEDES:	Optical Power Failure, Power Supply
Monitors:	Optical Power
Operating Temperature:	0.0° C to 60.0° C
Power Consumption:	25 W
Weight:	14 lbs. (max)
Dimensions:	19"(w) x 12"(l) x 1.75"(h)
Line Power:	120 VAC, 60 Hz

