

Microwave Photonic Systems, Inc. 888-868-8967**MPS-850RX**

Forward Path

Optical Receiver

(used with MPS-800TX)

Description

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.

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

Specifications

RF/Optical

Operating Wavelength	1290.0 nm-1600.0 nm
Input Optical Power	3.0 dBm (max)
RF Bandwidth	40 MHz-860 MHz
Flatness	± 1.0 dB
Return Loss	<-15.0 dB (min)
RF Impedance	75 Ω
Output Level	32 dBmV (max) (OMI = 3.7%)
C/N	>60 dB (OMI=3.7%, Opt Pwr = -3 dB, Ch BW=5MHz)
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 & Leds	Optical Power Failure, Power Supply
Monitors	Optical Power
Operating Temperature	0.0°C - 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, 60Hz



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