

Microwave Photonic Systems, Inc. 888-868-8967



MP-2320RX

3 GHz RF Analog Fiber Optic Receiver

Applications

Wideband RF Transmission

Antenna Remoting

L-Band SATCOM

GPS

Wireless/ PCS

Satellite Radio: XM, Sirius

Features

WDM & CWDM Compatible

Wide Bandwidth, 1.0 MHz to 3000 MHz

High Dynamic Range

Low Noise Post Amp

RS-232 or RS-485 Data Port (opt)

1 Year Full, 2 Year Limited Warranty

The MP-2320RX is a comprehensive family of RF/Fiber Optic Receivers that are designed to provide optical-to-electrical (O/E) conversion of broadband RF signals over a frequency range of 1.0 MHz to 3.0 GHz. The receiver family is comprised of four model variants that operate over a unique frequency range. Refer to the part number generator tool on page two.

The utilization of the MP-2320RX, in conjunction with the appropriate MP-2320TX RF/Fiber Optic Transmitter, forms a broadband link capable of supporting the transmission of RF signals over singlemode optical fiber for use in a wide array of communication applications. The link applications include antenna remoting, time and frequency reference distribution, RF delay lines, telemetry tracking, and point-to-point RF transmission.

The receiver utilizes a high speed, low distortion PIN photodiode detector that is integrated with a broadband RF post amplifier. The unit provides the user with status monitoring through the use of an onboard processor that communicates to a host computer over an RS-232 or RS-485 I/O interface. The I/O parameters include received optical power, temperature and alarm status. In addition, the receiver's post-amplifier gain can be adjusted using the integrated variable RF attenuator. The attenuator's adjustment range is 0.0 dB to 35.0 dB in 0.5 dB increments. The receiver is also available without a RF post amplifier.

Specifications

Optical		General	
Operating Wavelength	1200 nm to 1600 nm	Power Supply	+8.0 to +24 Vdc, 350 mA max.
Input Level (max)	+5 dBm	Optical Input Receptacle	Pigtail, FC/APC, SC/APC or AVIM APC
Responsivity (min)	0.85 A/W @ 1310 nm, 0.90 A/W @ 1550 nm	RF Output Connector	SMA(f), 50 ohm or F(f), 75 ohm
Input Backreflection	-55 dB to -63 dB	DC Connector	DB-15
Optical Fault Threshold	Factory preset to -12 dBm	Operating Temperature	-40°C to +85°C
		Storage Temperature	-55°C to +85°C
		Local Alarm	LED- Optical Power Failure (Plug-In Only)
RF Channel		Optical Power Monitor	1 V/mW ± 10%
Bandwidth	1.0 MHz to 3000 MHz	Remote Alarms	Open Collector and RS-232 or RS-485 Interface
Gain (min)	28.0 dB	Standard Conformity	CE
Flatness (max)	± 1.0 dB		
1 dB Comp. Level (min)	+18.0 dBm		
OIP-3 (min)	+28.0 dBm		
Noise Figure (max)	3.0 dB		



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3GHz FO RECEIVER

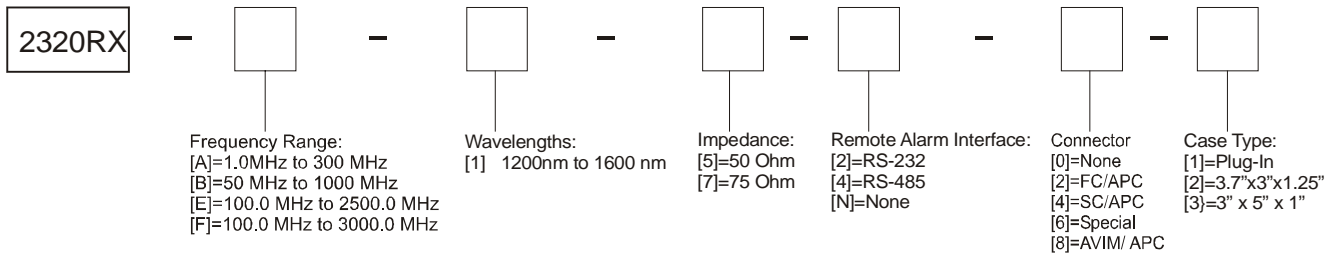
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MP-2320RX

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Part Number Generator



Please consult your sales person for other packaging configurations. This information is accurate as of this printing. However, to provide the best products available at the best prices, MPS reserves the right to make changes and improvements to the specifications without notice

