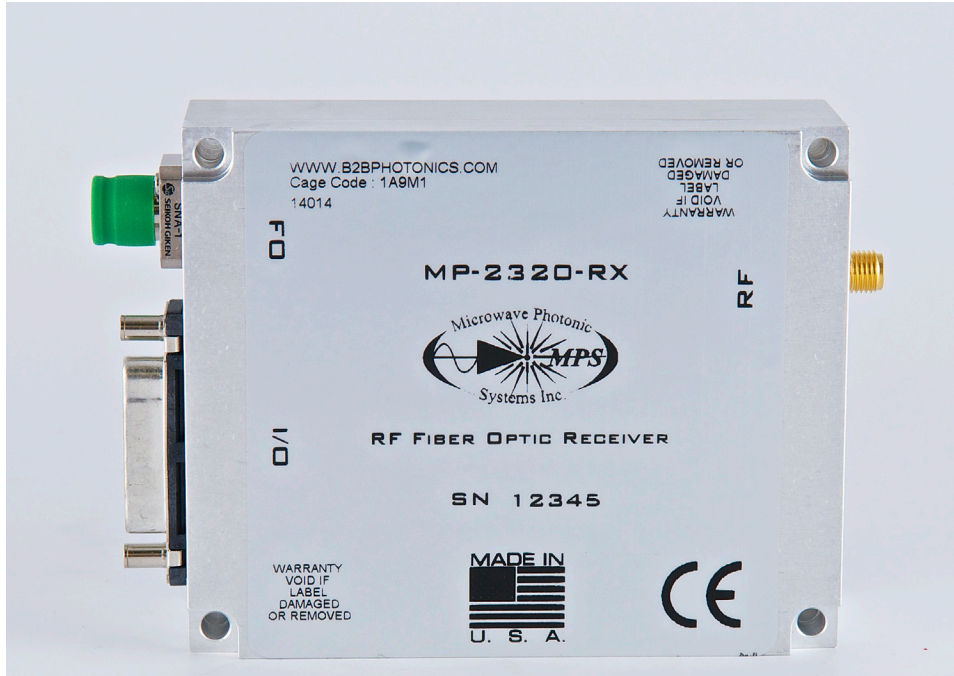


microwave photonic systems

MP-2320RX

3.5 GHz RF Analog Fiber Optic Receiver



Designed to provide optical-to-electrical (O/E) conversion of broadband RF signals over a frequency range of 1.0 MHz to 3.5 GHz

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 3500 MHz. The receiver family can be optimized over a unique frequency range as indicated in the part number generator tool on page two. Further system optimization can be achieved by using the integrated RF attenuators which have a 30 dB adjustment range.

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

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

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 3500 MHz
- Integrated RF Attenuator
- High Dynamic Range
- Low Noise Post Amp
- RS-232 or RS-485 Data Port (opt)
- 1 Year Full, 2 Year Limited Warranty

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MP-2320RX

3.5 GHz RF Analog Fiber Optic Receiver

Specifications

Optical Operating Wavelength: 1200 nm to 1600 nm Input Level (max): + 5 dBm Responsivity (min): 0.85 A/W @ 1310 nm 0.90 A/W @ 1550 nm Input Backreflection: -55 dB to -63 dB Optical Fault Threshold: Factory preset to -12 dBm	General Power Supply: +8.0 to +24 Vdc, 350 mA max Optical Input Receptacle: Pigtail, FC/APC, SC/APC or AVIM APC RF Output Connector: SMA(f), 50 ohm or F(f), 75 ohm DC Connector: DB-15 Operating Temperature: -40° C to +85° C Storage Temperature: -55° C to +85° C Local Alarm: LED - Optical Power Failure (Plug-in only) Optical Power Monitor: 1 V/m W ± 10% Remote Alarms: Open Collector and RS-232 or RS-485 Interface Standard Conformity: CE
RF Channel Bandwidth: 1.0 MHz to 3500 MHz Gain (min): 28.0 dB 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	

Part Number Generator

MP2320RX	—	□	—	□	—	□	—	□	—	□	—	□
<u>Frequency Range</u>		<u>Wavelengths</u>		<u>Impedance</u>		<u>Remote Alarm Interface</u>		<u>Connector</u>		<u>Case Type</u>		
A = 1.0 MHz to 300 MHz		1 = 1200 nm to 1600 nm		5 = 50 ohm		2 = RS-232		0 = None		1 = Plug-In		
B = 50 MHz to 1000 MHz				7 = 75 ohm		4 = RS-485		2 = FC/APC		2 = 3 x 5 x 1		
E = 100 MHz to 2500 MHz						N = None		4 = SC/APC		3 = 3 x 3.7 x 1.26		
F = 100 MHz to 3000 MHz								6 = Special				
G = 500 MHz to 3500 MHz								8 = AVIM/APC				

