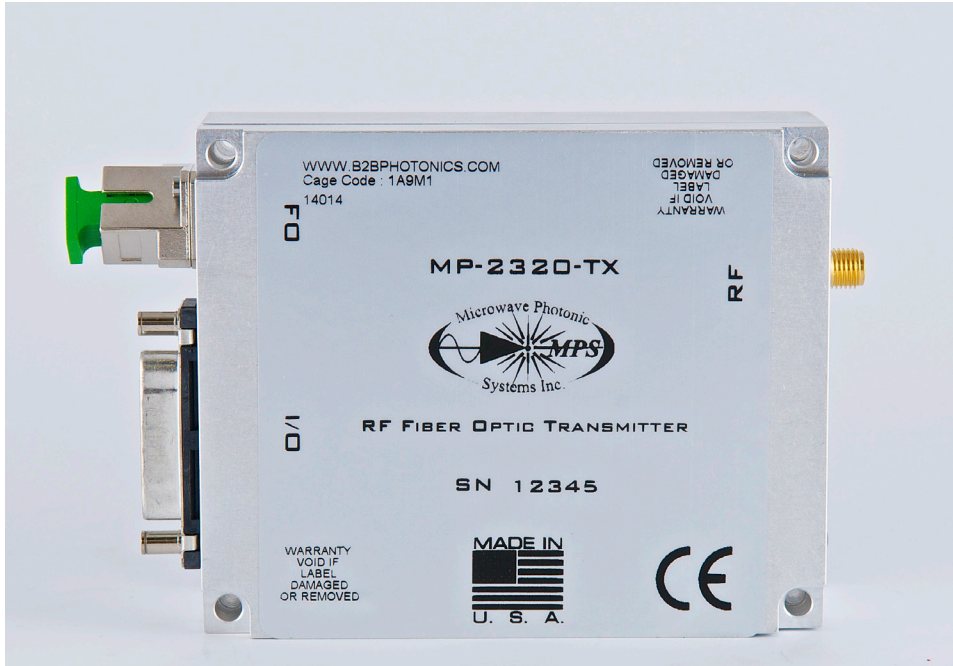


microwave photonic systems

MP-2320TX

3.5 GHz RF Analog Fiber Optic Transmitter



Designed to provide electrical-to-optical (E/O) conversion of broadband RF signals over the 1 MHz to 3500 MHz frequency range

The MP-2320TX is a comprehensive family of RF/Fiber Optic Transmitters that are designed to provide electrical-to-optical (E/O) conversion of broadband RF signals over a frequency range of 1.0 MHz to 3500 MHz. The transmitter 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-2320TX, in conjunction with the appropriate MP- 2320RX RF/Fiber Optic Receiver, forms a broadband link capable of supporting the transmission of RF signals over single-mode 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 transmitter utilizes a low noise, high dynamic range Distributed Feedback (DFB) laser with integrated temperature stability control. The transmitter operates over link distances up to 50 km. An optional longhaul Distributed Feedback (DFB) laser can be specified that extends the link range to 80 km. 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 I/O interface. The I/O parameters include laser bias current, temperature and alarm status.

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

- CWDM Compatible
- Wide Bandwidth, 1.0 MHz to 3500 MHz
- Adjustable RF Front End Attenuator
- High Dynamic Range
- Integrated Bias-T (opt)
- 80 km Extended Range (opt)
- RS-232 or RS-485 Data Port (opt)
- 1 Year Full, 2 Year Limited Warranty

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3.5 GHz RF Analog Fiber Optic Transmitter

Specifications

Optical Operating Wavelength: 1310 nm ± 2 nm 1550 nm ± 2 nm or CWDM Bands Laser Diode: Class 3A Output Power: +3 dBm ± 0.5 dBm Allowed Backreflection (max): 36 dB @ full specs E/O Diff. Eff. (min): 0.06 W/A	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 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 Modulation Bandwidth: 1.0 MHz to 3.0 GHz Flatness (max): ± 2.0 dB VSWR (max): 2.0:1 1 dB Comp. Level (min): 15.0 dBm* Input IP-3 (min): 33.0 dBm* Input Damage Level: 24.0 dBm* RF Link Gain (typ): 0.0 dB @ 1.0 dB Optical Loss* Noise Figure (max): 35 dB @ 1.0 dB Optical Loss*	* Note: Overall link performance as measured from RF Input/Output when linked with the MP-2320RX.

Part Number Generator

