

Microwave Photonic Systems, Inc. 888-868-8967



MP-2320TX

3 GHz RF Analog Fiber Optic Transmitter

Applications

Wideband RF Transmission

Antenna Remoting

Sattelite Radio: XM, Sirius

L-Band SATCOM

GPS

Wireless/ PCS

Features

CWDM Compatible

Wide Bandwidth, 1.0 MHz to 3000 MHz

High Dynamic Range

80 km Extended Range (opt)

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

1 Year Full, 2 Year Limited Warranty

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 3000 MHz. The transmitter family is comprised of four model variants that each operate over a unique frequency range as indicated in the part number generator tool on page two.

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 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 transmitter utilizes a low noise, high dynamic range Distributed Feedback (DFB) laser with intergrated temperature stability control. The transmitter operates over link distances up to 50 km. An optional long-haul 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.

Specifications

Optical		General	
Operating Wavelength	1310 nm \pm 2 nm, 1550 nm \pm 2 nm or CWDM Bands	Power Supply	+8.0 to +24 Vdc, 350 mA max.
Laser Diode	Class 3A	Optical Input Receptacle	Pigtail, FC/APC, SC/APC or AVIM APC
Output Power	+3 dBm \pm 0.5 dBm	RF Output Connector	SMA(f), 50 Ohm
Allowed Backreflection (max)	36 dB @ full specs	DC Connector	DB-15
E/O Diff. Eff. (min)	0.06 W/A	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 \pm 10%
Modulation Bandwidth	1.0 MHz to 3.0 GHz	Remote Alarms	Open Collector and RS-232 or RS-485 Interface
Flatness (max)	\pm 2.0 dB	Standard Conformity	CE
VWSR (max)	2.0:1		
1 dB Comp. Level (min)	15.0 dBm ⁽¹⁾		
Input IP-3 (min)	33.0 dBm ⁽¹⁾		
Input Damage Level	24.0 dBm ⁽¹⁾		
RF Link Gain (typ)	0.0 dB @ 1.0 dB Optical Loss ⁽¹⁾		
Noise Figure (max)	35 dB @ 1.0 dB Optical Loss ⁽¹⁾		

Note (1): Overall link performance as measured from RF Input/Output when linked with the MP-2320/RX.



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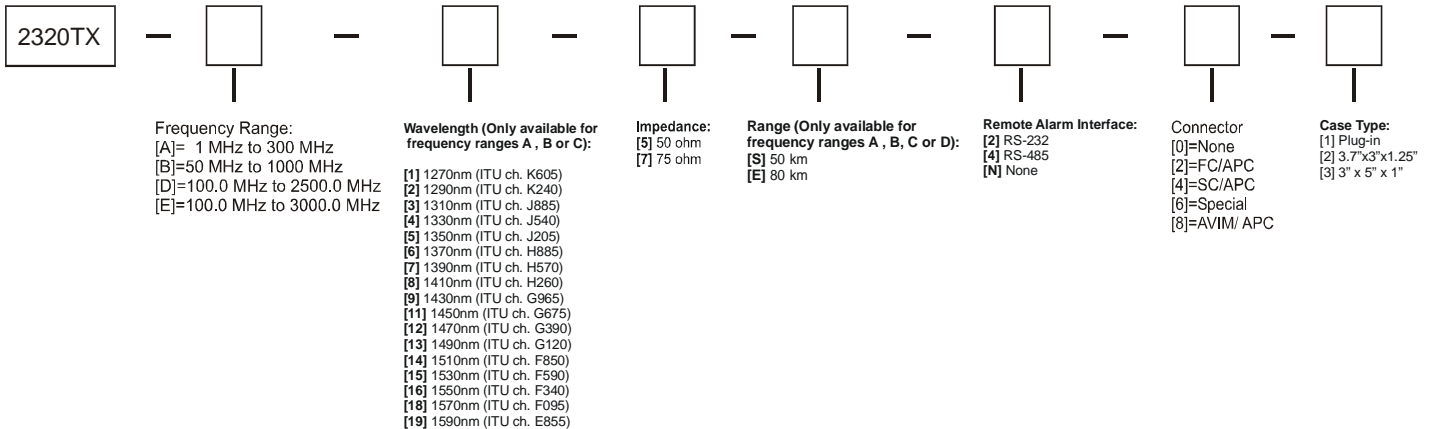
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Part Number Generator



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



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