microwave photonic systems

MP-17X100TDC: Optical EDFA with Integrated Tunable Dispersion Compensator

Optical Amplifier With Tunable Dispersion Compensation Module



Provides linear optical amplification and tunable dispersion compensation for long haul photonic transport.

The MP-17X100TDC integrates the functionality of an Erbium Doped Fiber Amplifier (EDFA) and a Tunable Dispersion Compensator Module (TDCM) to provide long haul transmission of RF communications traffic using C-Band optical signals.

When the MP-17X100TDC is used in conjunction with selected MPS optical transmitters which are configured with DWDM lasers it is capable of providing transmission distances up to 130 km.

The key attributes of the MP-17X100TDC which allow the extended transmission of RF signals are the linear optical gain (23 dB), and the tunable window of dispersion slope compensation (+/- 1500 ps/nm). The MP-17X100T-DC is optimized for RF optical communications link with a RF bandwidth of up to 18 GHz.

The MP-17X100TDC System Consists of a 1RU rack mount unit, with digital front panel display and controls. The integrated Ethernet based Monitor and Control (M&C) permits remote operation and status monitoring of the unit.

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

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Market Applications

- Ultra Wideband RF over Fiber
- Long Haul Interfacility Links
- Remote Telemetry Links
- Mil-SATCOM Earth Stations

Features & Options

- Ultra Wideband (1MHz to 18 GHz)
- Optional Extension to Ka-Band (33 GHz)
- Linear Gain of 23 dB
- Slope Compensation of 1500 ps/nm
- Front Panel Control Display
- Remote Status Monitor and Control
- 3 Year Full Warranty

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Optical Amplifier With Tunable Dispersion Compensator

Specifications

Optical Performance Parameters:

Operating Wavelength C-Band

Optical Connector FC/APC (Or Customer Specified)

Input Optical Power -23 dBm to 0 dBm Optical Gain up to 23 dB

Noise Figure 5.5 dB (Min) to 8 dB (Max)

Dispersion Correction +/- 1500 ps/nm

System Interface Parameters:

Remote Monitor and Control Ethernet via RJ45

Local Monitor and Control Front Panel Key Pad and Vacuum Fluorescent Display

General Performance Parameters:

Power Supply Auto Ranging, Universal AC

Power Control On/Off Switch
Storage Temperature -40°C to +75°C
Operating Temperature -20°C to +60°C
Dimensions 19" x 1RU Standard

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