



1310nm Optical Transmitter Module

Key Features

- » High linearity, optically isolated, distributed AM feedback ORTEL DFB laser with optical output power options of 3, 6, 7.8, 10, 12 and 14.2dBm
- » Transmits NTSC, PAL, ATSC, and related digital information for CATV and/or telephony applications
- » 47-1003 MHz RF input bandwidth
- » Microprocessor-controlled diagnostics with digital processing technology and advanced RF pre-distortion circuit
- » Front panel SC/APC optical connectors allowing for ease in connecting optical fiber and cleaning optical connectors
- » Front panel LEDs display laser operation and RF input status



MUL-OTC-1310-V-X



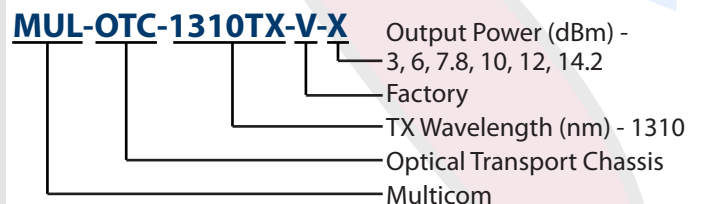
MUL-OTC-CH-V

Description

The Multicom MUL-OTC-1310TX-V intelligent directly modulated optical transmitter module is designed to be used in the Multicom Optical Transport Chassis MUL-OTC-CH-V, and is mainly used in 1310nm optical fiber transmission systems. This 1310nm Module uses an ORTEL DFB laser with an optical output power options of 3, 6, 7.8, 10, 12 and 14.2dBm, and advanced intelligent electronic predistortion compensation technology.

This intelligent directly modulated optical transmitter is one of the most important components to build a CATV-HFC network. It is mainly used to transmit analog video, digital television signal, telephone voice signal and data (or compressed data) signal. This Multicom product provides a high quality low cost transmitter solution for a 1310nm optical fiber CATV system.

The Multicom 1310nm Optical Transmitter Module is a member of the Multicom OTC (Optical Transport Chassis) product family that includes the CMM Display and Control Module and dual redundant Power Modules in a 16 slot chassis. The OTC also supports the hot-swappable 1550nm Optical Transmitter Modules and EDFA modules, as well as alternative modules to meet your network needs.



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1310nm Optical Transmitter Module

Product Specifications

Description

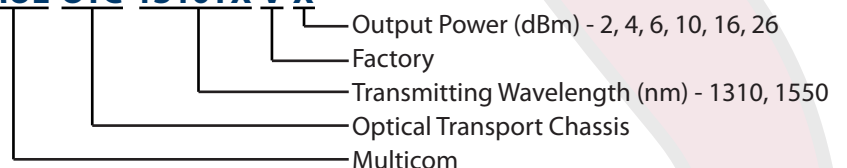
The Multicom MUL-OTC-1310TX-V intelligent directly modulated optical transmitter module is designed to be used in the Multicom Optical Transport Chassis MUL-OTC-CV-V, and is mainly used in 1310nm optical fiber transmission systems. This 1550nm Module uses an ORTEL DFB laser with an optical output power options of 2, 4, 6, 10, 16, 26dBm, and advanced intelligent electronic predistortion compensation technology.

This intelligent directly modulated optical transmitter is one of the most important components to build a CATV-HFC network. It is mainly used to transmit analog video, digital television signal, telephone voice signal and data (or compressed data) signal. This Multicom product provides a high quality low cost transmitter solution for a 1310nm optical fiber CATV system.

Technical Specifications

Item	Unit	Technical Parameters					
Optical output power	dBm	2	4	6	10	16	26
Optical link loss	dB	3	6	7.8	10	12	14.2
Optical wavelength	nm	1310 ± 20					
Laser type		ORTEL DFB laser					
Optical modulation mode		Direct optical intensity modulation					
Optical connector type		SC/APC					
Frequency range	MHz	47 ~ 1003 (depending on selected channel load)					
RF input level	dBmV	+15 to +25 (75 - 85 dBμV)					
Flatness in band	dB	± 0.75					
RF input impedance	Ω	75					
Input return loss	dB	≥ 16					
C/CSO	dB	≥ 65					
C/CTB	dB	≥ 60					
C/N	dB	≥ 51					
AGC control range	dB	± 5					
AGC adjustable range	dB	± 5					
MGC attenuation range	dB	0 - 15					
Consumption	W	25					
Operating temperature	°C	0 - +45 (+32 - +113°F)					
Storage temperature	°C	-20 - +65 (-4 - +150°F)					
Relative humidity	%	Max 95% no condensation					

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