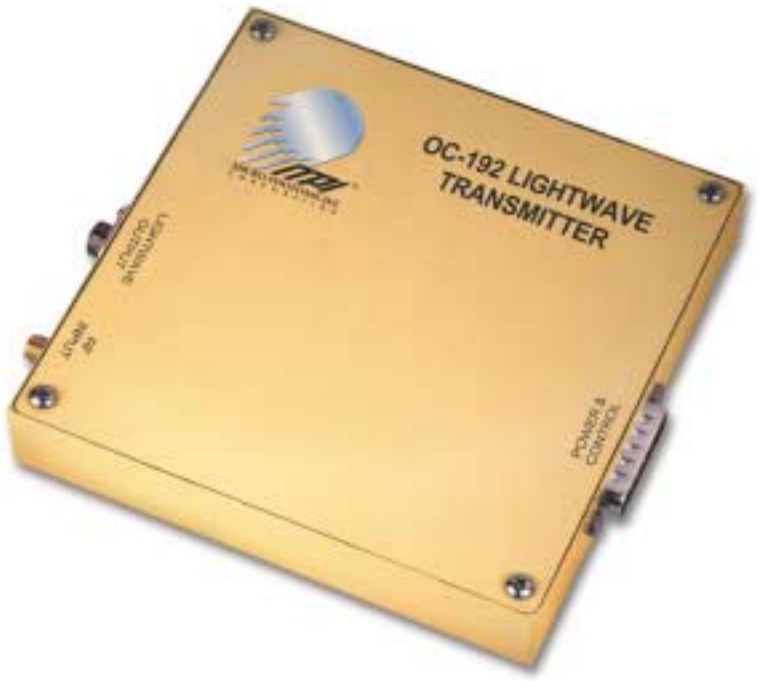
MICRO PHOTONIX INTEGRATION

OC-192 Transmitter

TECHNICAL SPECIFICATIONS



Applications:

- SONET/SDH
- Ultra Long Haul
- Long Haul
- Metro

Features:

- Proven 10 Gb/s, Lithium Niobate-based modulator performance and reliability
- Integrated OC-192 modulator, RF driver, bias control and laser
- Easy-to-use, compact MSA-sized package
- Digital bias control circuit for over-temperature, long-term stability
- Zero chirp, negative fixed chirp, or adjustable chirp design
- L Band configuration available
- Customer-specified ITU grid DFB laser source built in
- Also available with external light source input
- Microsoft Windows™-based control software simplifies transmitter interface and operations

The Micro Photonix Integration OC-192 Transmitter combines high performance OC-192 modulator, 10 Gbs/driver and bias control technologies in one easy to use package. Utilizing MPI's advanced integration techniques, the OC-192 Transmitter takes the best that each of these components has to offer and creates a synergistic module that delivers unparalleled transmission performance at a lower cost.

The OC-192 Transmitter eliminates the need to procure, assemble and test individual components. Other benefits include reduced inventory, reduced component damage due to handling and improved time to market. Standard configurations are available with or without laser. Inquiries about custom-integrated modules are welcome.

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MICRO PHOTONIX INT. CORPORATION

Innovative Solutions for the Age of Light

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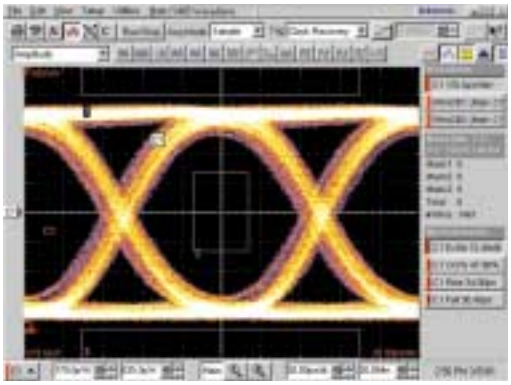
		Minimum	Typical	Maximum	Units
Optical	Internal Laser				
	Operating Wavelength	1520		1580	nm
	Output Power*		10		mw
	External Source				
	Operating Wavelength	1520		1580	nm
	Insertion Loss**	4.0	5.0	6.0	dB
Modulation	On/Off Extinction Ratio @ 10 Gb/s PRBS	12	14		dB
	Digital Response Time		35/40		ps
Electrical	Drive Voltage @ 10 Gb/s	0.6	0.8	1.0	V
	Electrical Return Loss (s11)	10			dB
	Laser Input Power	10	15	30	dBm
	DC Power Supply				
	Supply Voltage	14	15	16	V
	Supply Current		500		mA
	VT Control Voltage	0		-10	V
	Continuous Current		30		mA

Package	
Optical Output Fiber	Corning SMF-28
Optical Output Connector	FC/SPC
RF Input Connector	SMA (or customer specified)
Interface/Control Connector	25-pin D-connector
Package size	TBD
Optical Input Fiber (External Source only)	Fujikura PM
Optical Input Connector (External Source only)	FC/SPC

* Power output level depends on selected laser manufacturer and model

** Internal tap coupler and connector loss included

Eye Diagram



Microsoft Windows™-based Software

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