



OTEB-CO-B Booster EDFA

Specifically for distribution of 1550nm CATV/video/data in HFC, PON/AON or FTTH systems.

- Typically used in a launch or mid-span application. Optimized for use with Olson fiber-based DCM.
- Low optical input level requirements with excellent low noise performance at high output
- 90-254 Volts AC power supply. DC option not available.
- Optional SNMP monitoring.
- 1540nm to 1560nm wavelength range
- LED indicators and LCD display for easy setup and maintenance.
- Single, dual and quad optical output options
- SC/APC optical connector standard.



The Olson Technology Model OTEB-CO-B Series EDFA incorporates a reliable optical output drive circuit, and laser TEC to provide a highly reliable Erbium-doped optical amplifier. Built-in microprocessor software allows the user to monitor a number of system parameters, including: laser status, systems alarm, network management, TEC circuit operation, etc. If a critical problem is detected, the power supply for the laser will shut down automatically, a red LED indicator will light, and the front panel display will show the nature of the problem. Optional SNMP network management is available through the RS-232 interface. The EDFA is housed in a 1RU 19" rack mount configuration with an integrated 90-254 Volts AC power supply.

This rugged, low-profile, high-efficiency EDFA design utilizes highly reliable pump lasers for maximum reliability. The unit accepts a wide optical input range (-10dBm to +10dBm) and provides a total composite/saturated output power from +13dBm to +26dBm, depending on the specific model. The LaserLite Model OTEB-CO-B Series erbium doped fiber amplifier is the perfect companion to the Olson LaserPlus and LaserLite families of 1550nm EM and DM transmitters and MetroNode and PremiseNode families of receiver/nodes. It is also designed to operate seamlessly with optical transmitters, receivers and nodes from most leading manufacturers.

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Specifications

Optical Characteristics (with SM 9/125µm Fiber)

	Min	Typ	Max	Units
Optical Output Power	+16		+26	dBm
Optical Input Power	-10	+3	+10	dBm
Wavelength	1540		1560	nm
Output Stability		±0.3		dB
Noise Figure (0dBm in)		5.0		dB
Noise Figure (+6dBm in)		6.0		dB
Pump Power Leakage			-30	dBm
Reflection Loss			-40	dB
Optical Connector		SC/APC		
Network Management Interface **		RS-232		

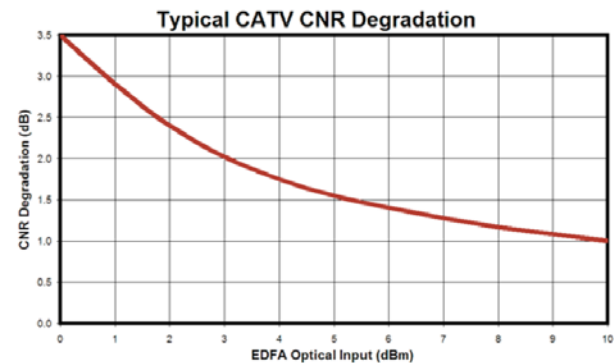
** SNMP is optional at the time of ordering

Physical Characteristics

	Min	Typ	Max	Units
Weight		12		lbs
		5.5		kg
Dimensions(WxHxD)	19 x 14.2 x 1.75			in
	483 x 361 x 44			mm

Electrical and Environmental Characteristics

	Min	Typ	Max	Units
AC Power Supply Voltage	90		254	VAC
DC Power Supply Voltage		-48		VDC
Operating Temp. Range	0		+50	°C
Storage	-20		+65	°C
Humidity	5		90	%



Ordering Information

OTEB-CO-B113x-SA-AC	EDFA, 1 Output, +13dBm Optical Output per Port, SC/APC Connector, AC Power
OTEB-CO-B114x-SA-AC	EDFA, 1 Output, +14dBm Optical Output per Port, SC/APC Connector, AC Power
OTEB-CO-B115x-SA-AC	EDFA, 1 Output, +15dBm Optical Output per Port, SC/APC Connector, AC Power
OTEB-CO-B116x-SA-AC	EDFA, 1 Output, +16dBm Optical Output per Port, SC/APC Connector, AC Power
OTEB-CO-B117x-SA-AC	EDFA, 1 Output, +17dBm Optical Output per Port, SC/APC Connector, AC Power
OTEB-CO-B118x-SA-AC	EDFA, 1 Output, +18dBm Optical Output per Port, SC/APC Connector, AC Power
OTEB-CO-B119x-SA-AC	EDFA, 1 Output, +19dBm Optical Output per Port, SC/APC Connector, AC Power
OTEB-CO-B120x-SA-AC	EDFA, 1 Output, +20dBm Optical Output per Port, SC/APC Connector, AC Power
OTEB-CO-B121x-SA-AC	EDFA, 1 Output, +21dBm Optical Output per Port, SC/APC Connector, AC Power
OTEB-CO-B122x-SA-AC	EDFA, 1 Output, +22dBm Optical Output per Port, SC/APC Connector, AC Power
OTEB-CO-B123x-SA-AC	EDFA, 1 Output, +23dBm Optical Output per Port, SC/APC Connector, AC Power
OTEB-CO-B124x-SA-AC	EDFA, 1 Output, +24dBm Optical Output per Port, SC/APC Connector, AC Power
OTEB-CO-B221x-SA-AC	EDFA, 2 Outputs, +21dBm Optical Output per Port, SC/APC Connector, AC Power
OTEB-CO-B419x-SA-AC	EDFA, 4 Outputs, +19dBm Optical Output per Port, SC/APC Connector, AC Power

x: Omit = No SNMP, "S" = SNMP

- Notes: 1) The list above are common configurations. Other configurations are available. Call factory with questions.
 2) Maximum optical output power per port is +24dBm
 3) Maximum total optical output power for the OTEB-CO series is +26dBm.

Generalized Part Numbering System

OTEB-CO-Byzxx-SA-AC	EDFA, "y" Outputs, "zz" dBm per Output, "x" to select SNMP, SC/APC Connector, AC Power
OTEB-CO-Byzxx-SA-DC	EDFA, "y" Outputs, "zz" dBm per Output, "x" to select SNMP, SC/APC Connector, DC Power