

# 9000EDFA-B, 9000EDFA-L, 9000EDFA-P, 9000EDFA-D-AGC

## Erbium Doped Fiber Amplifiers



The 9000EDFA series are high quality, erbium doped fiber amplifiers used to extend signals in long-haul optical communications applications. Available in boost, inline, and pre-amp configurations, the different models cover various transmission scenarios at points all along the optical communications path.

Combined with Evertz® optical transmitters, receivers and DWDM multiplexing products, the 9000EDFA series amplifiers offer a complete solution for long-haul signal transmission.

### ►Features & Benefits

- Low noise figure
- Low Power Consumption
- Wide Operating Wavelength Range
- 9000EDFA-P pre-amplifier has high input sensitivity for amplifying weak signals at the end of the optical path

- 9000EDFA-L inline amplifier combines high input sensitivity and high output power for amplifying optical signals at points within a long-haul path
- 9000EDFA-B boost amplifier provides high optical launch power at the beginning of a long-haul path or optical distribution system
- 9000EDFA-D-AGC may be used as an inline or pre-amplifier. It contains a gain flattening filter for use in DWDM systems with high channel counts and multiple hops. Automatic Gain Control (AGC) allows the unit to respond dynamically to changes in the optical input power and/or number of carriers

\*9000EDFA is strictly for DWDM applications

\*\*9000EDFA to be used ONLY in Single Mode Fiber applications

\*\*\*Always consult Evertz® for applications assistance when specifying EDFA's

	9000EDFA-B			9000EDFA-L			9000EDFA-P			9000EDFA-D-AGC		
	MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX
Operational Wavelength (nm)	1530	1550	1560	1530	1550	1560	1530	1550	1560	1529	1550	1561
Signal Input Power (dBm)	-6		3	-25		-8	-35		-25	-29		+7
Signal Output Power (dBm)	13	17		3	15				-5		+17	+20
Small Signal Gain @-35dBm input									30			
Gain (dB)										+10		+25
Noise Figure @ 1550nm, -0dBm input (dB)		5.0	5.5		4.8	5.5		4.5	5.0			
In/Output Isolation (dB)	30			30			30					
Return Loss	50			50			50					
Connectors	SC/APC											

### ►Specifications

#### Electrical:

Voltage (standard) 100 -240V AC auto ranging,  
50/60 Hz

Power: 25W

#### Physical (number of slots):

Dimensions 17"W x 10.25"D x 1.74"H  
(434mmW x 260mmD x 44mmH)

Mounting 1RU, Standard 19" rack

### ►Ordering Information

9000EDFA-B	Erbium Doped Fiber Boost Amplifier
9000EDFA-L	Erbium Doped Fiber Inline Amplifier
9000EDFA-P	Erbium Doped Fiber Pre-Amplifier
9000EDFA-D-AGC	Erbium Doped Fiber Inline/pre-amplifier, gain-flattened, AGC