

Models 6901
& 6902

1550 nm **EDFA**
erbium-doped fiber amplifier

- Amplifies optical signals in post-amp power booster, in-line power amplifier, or pre-amp booster applications.
- State-of-the-art 980 nm pump laser provides high optical output power.
- A rear panel 9-pin D-sub connector inputs alarm information into a status monitoring system.
- Front panel LEDs allow immediate visual verification of the units' operational status.
- Provides low noise figures making these units ideal for CATV applications.
- AC Power Supply Model complies with FCC and UL Requirements.



Model 6901 EDFA

The Force, Incorporated Model 6901 and 6902 Erbium-doped Fiber Amplifiers (EDFAs) provide unparalleled performance in post-amplifier, in-line amplifier, pre-amplifier applications. As a post amplifier, Model 6901 receives the transmitted signal at its origination and launches a data stream at +15.5 dBm typical over a single optical fiber, making it ideal for long-haul applications. As an in-line amplifier, Model 6901 increases the signal strength at some point in the transmission line, greatly increasing the allowable distance between the transmit and receive sites. As a pre-amplifier, the Model 6901 directly precedes the receiver, boosting signal strength. Model 6902 provides four outputs of +8.9 dBm via an integral optical 1 x 4 splitter, providing multiple signals for local distribution. The Models 6901 and 6902 will interface with a remote status monitoring system via a rear panel 9-pin D-sub connector, allowing the user to access system information from a distant location. The wide wavelength range, excellent gain flatness, and low noise figure make the EDFAs ideal for CATV and DWDM applications.

Available through **Multicom, Inc.**

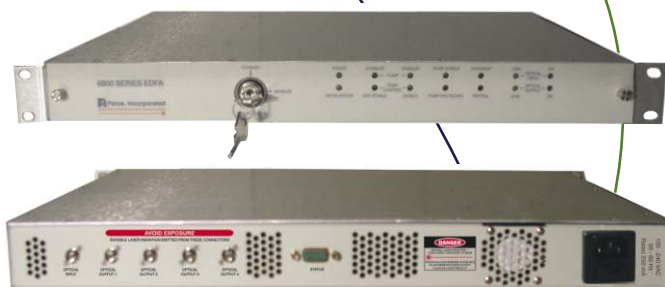
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Electrical, Environmental, and Physical Characteristics*

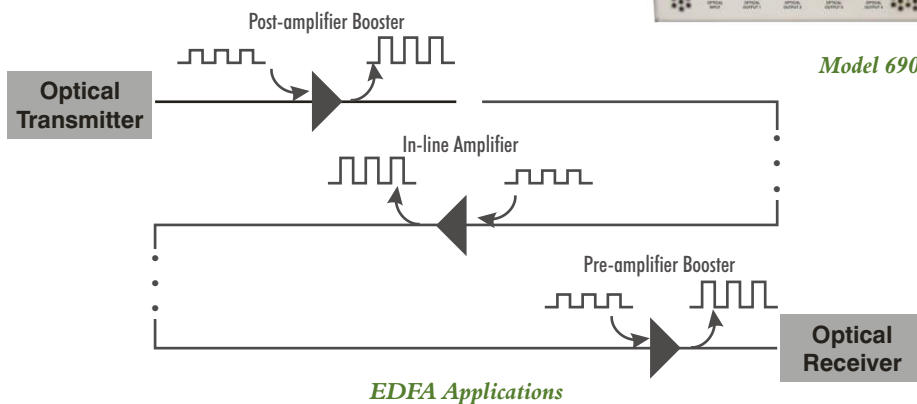
Optical Characteristics*

	Min	Typ	Max	Units
Operating Wavelength	1529	1550	1561	nm
Optical Output Power (6901)	+15.0	+15.5	16.0	dBm
Optical Output Power (6902)	+8.3	+8.9	+9.5	dBm
Optical Gain	10		30	dB
Noise Figure	4.5		5.5	dB
Gain Flatness	0.4		0.8	dB
Optical Output Uniformity	-0.5		+0.5	dB

	Min	Typ	Max	Units
Power Supply Voltage	120		240	V _{AC}
Power Consumption		10		Watts
Operating Temperature Range	0		+50	°C
Storage Temperature Range	-20		+65	°C
Humidity	5		95	%
Weight		7.5		lbs.
		3.4		kg
Dimensions	19.0 x 16.0 x 1.75			in.
	483 x 406 x 44.5			mm



Model 6902 Front and Rear Views



Ordering Information*

6901FB-15-SDAP EDFA, Single Channel, +15.5 dBm Output, SM, C-Band, FC/APC, 120-240 Volts AC
 6901FB-15-SDSP EDFA, Single Channel, +15.5 dBm Output, SM, C-Band, SC/APC, 120-240 Volts AC
 6902FB-15-SDAP EDFA, 1 x 4, +8.9 dBm Output, SM, C-Band, FC/APC, 120-240 Volts AC
 6902FB-15-SDSP EDFA, 1 x 4, +8.9 dBm Output, SM, C-Band, SC/APC, 120-240 Volts AC

*See IOM6901 and IOM6902 for complete specifications and complete part numbers.

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