

MODEL NO

EDFA-1550nm-17

DESCRIPTION:

The Erbium-Doped Fiber Amplifier (EDFA) is a general-purpose optical amplifier for the C-band. This single pump optical amplifier features over +17dBm of saturated optical output power, together with a high small-signal gain and low noise figure. This amplifier has internal input and output isolators and includes drive and control electronics. Upon request, it allows for external Enable/Disable and external control of the pump laser diode current.

**OPTICAL PARAMETERS (AT 25°C)**

Parameter	Specification	Unit
Operating wavelength band	1550 ±5	nm
Saturated output power (+7dBm input at 1550nm)	> +17	dBm
Small-signal gain (-30dBm input at 1550nm)	> 25	dB
Noise Figure (+7dBm input at 1550nm)	< 6	dB
Input and Output Isolation	> 30	dB
Polarization dependent gain	< 0.2	dB

OPTICAL CONNECTIONS

Fiber type – input and output signal	SMF-28 or equivalent
Connector type – input and output signal	FC/APC

ELECTRICAL PARAMETERS (AT 25°C)

Parameter	Specification	Unit
DC Power supply	+5	V
Power consumption	< 15	W

ENVIRONMENTAL SPECIFICATIONS

Parameter	Specification	Unit
Operating case temperature	5 - 55	C
Storage temperature	-5 - 75	C
Humidity	0 - 95, Non-condensing	%
Dimensions (WxDxH)	120 x 90 x 25	mm