

# ERBIUM-DOPED FIBER AMPLIFIER

- C-Band / L-Band, Benchtop Design



## APPLICATIONS

- Optical Fiber Communication System
- DWDM Optical Communication
- Optical CATV
- Optical Analog Transmission

## FEATURES:

- C-Band or L-Band, benchtop design, high stability
- Output power can be adjustable
- Digital display of optical output power, pump LD current and temperature
- Rotary adjustment knob allows smooth analog adjustments
- Remote monitoring and control over RS232 interface



FRONT PANEL



REAR PANEL

## GENERAL SPECIFICATIONS:

Optical Parameter	Symbol	C-Band			L-Band		
		Min.	Typ.	Max.	Min.	Typ.	Max.
Operating Wavelength (nm)*	$\lambda_c$	1529	-	1562	1569	-	1604
Saturated Output Power (dBm)*	Po	-	-	30	-	-	30
Small Signal Gain (dB)	-	30	-	-	30	-	-
Input Power (dBm)	$\Delta\lambda$	-25	-	+10	-25	-	+10
Noise Figure (dB)	NF	-	-	5.0	-	-	5.0
Output Power / Gain Stability (dB)	$\Delta P_o/\Delta G$	-	-	$\pm 0.2$	-	-	$\pm 0.2$
Gain Flatness (dB)**	GF	-	-	1.0	-	-	1.0
Input Isolator (dB)	ISO <sub>i</sub>	30	-	-	30	-	-
Output Isolator (dB)	ISO <sub>o</sub>	30	-	-	30	-	-
Polarization Dependent Gain (dB)	PDG	-	-	0.5	-	-	0.5
Polarization Mode Dispersion(ns)	PMD	-	-	0.5	-	-	0.5

\*Optional

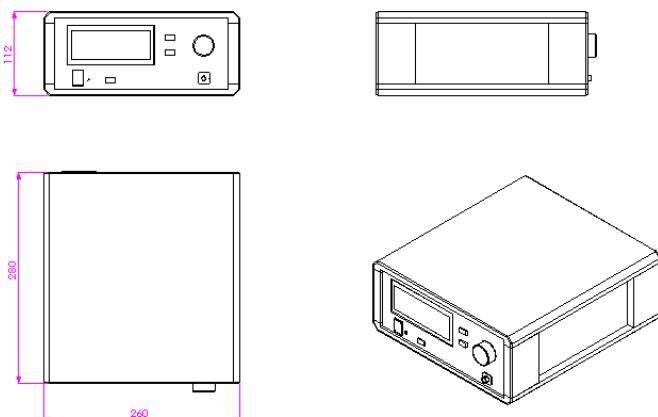
\*\*For Broad Band Wavelength

Electrical Parameter	Symbol	Min.	Typ.	Max.
Operating Voltage (VAC)	V	85	-	264
Power Consumption (W)	Pc	-	-	15

Absolute Max/Min Ratings	Symbol	Min.	Typ.	Max.
Operating Temperature (°C)	T <sub>w</sub>	0	-	50
Storage Temperature (°C)	T <sub>s</sub>	-40	-	70
Humidity (%)	-	10	-	85

*Photonik reserves the rights to change product designs and specifications at any time without notice.*

## MECHANICAL DRAWING (Unit: mm):



## ORDERING INFORMATION

### EDFA-(1)-(2)-(3)

- (1) Wavelength: C = C-Band; L = L-Band;  
CL = C-Band and L-Band.
- (2) Max. Output Power: 30 = 30dBm.
- (3) Connector Type: FU = FC/UPC; FA = FC/APC;  
SU = SC/UPC; SA = SC/APC.

## WARRANTY:

12 months standard for electronics. All products are guaranteed to be free from defects in materials and workmanship for a period of one year from date of purchase. Photonik reserves the right to repair or replace defective products at our option. This warranty does not apply to failure of the product due to misuse, abuse, accident, or neglect. Our liability is limited to the price of the part or service we are providing. Extended warranty upon request.