



# Compact Low Cost Pre-Amplifier EDFA (Full Function)

## Features/Benefits

- Low cost
- APC, ACC mode
- Low power consumption
- Wide operating temperature range
- Standard communication interface (RS232, I<sup>2</sup>C)

## Applications

- Metropolitan and access networks
- Digital CATV
- Amplet for long-haul network
- Single-channel or DWDM sub-systems
- Optical cross-connects
- Optical add/drop modules
- Power equalization and flexible pre-emphasis

## Full Function Pin Assignment

Pin	RS-232	I <sup>2</sup> C
1	Serial input	Serial bi-di data
2	GND	GND
3	Serial output	Serial clock
4	Alarm status	Alarm status
5	GND	GND
6	Power supply +3.3V	Power supply +3.3V

## Safety Information

### ESD Protection

The laser diodes and photodiodes in the module can be easily destroyed by electrostatic discharge. Use wrist straps, grounded work surfaces, and anti-static techniques when operating this module. When not in use, the module shall be kept in a static-free environment.

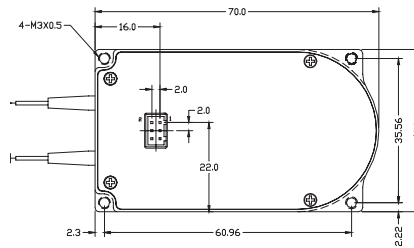
## Optical Specifications

Parameters	Unit	Min.	Typ.	Max.
Operating Wavelength Range	nm	1528	-	1562
Input Optical Power (Pin)	dBm	- 30	-	- 10
Signal Gain @ Pin= -30dBm	dB	20	-	-
		25	-	-
Noise Figure @Pin= -30dBm	dB	-	5	6
Polarization Dependent Gain	dB	-	-	0.5
Polarization Mode Dispersion	ps	-	-	0.5
Return Loss (Pump LD off)	dB	35	-	-
Operating Temperature Range	°C	- 5	-	70
Fiber Type	-	SMF-28, 900µm loose tube		
Dimensions	mm	40 x 70 x 12		

## Electrical Specifications

Parameters	Unit	Min.	Typ.	Max.
Output Monitor Accuracy	dB	-0.5	-	+ 0.5
Power Supply Voltage	V	3.1	3.3	3.5
Power Consumption	W	-	-	1.0

## Dimensions



Bottom view



Side View

Unit: mm

## Ordering Information

N	O	A	P	F					0	0	0	1	1	
				Signal Gain @ Pin= -30dBm 20= 20dB 25= 25dB		Default Mode 1= APC 2= ACC		Electronic Interface R= RS-232 C= FC		Fiber Length 1= 1.0±0.1m		Connector 0= None 1= FC/UPC 2= FC/APC 3= SC/UPC 4= SC/APC 5= LC/UPC 6= MU/UPC		
												Pigtail Type 1= 900µm loose tube		

This product information is subject to change without notice.