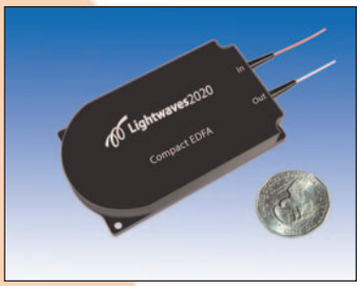


Compact Low Cost Pre-Amplifier EDFA (Full Function)

Features/Benefits

- Low cost
- APC, ACC mode
- Low power consumption
- Wide operating temperature range
- Standard communication interface (RS232, I²C)

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	I²C
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

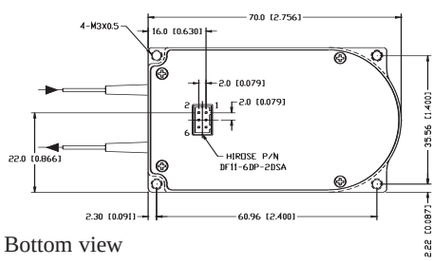
Parameters	Unit	Min.	Typ.	Max.
Operating Wavelength Range	nm	1528	-	1562
Input Optical Power (Pin)	dBm	- 30	-	- 10
Signal Gain @ Pin= -30dBm	dB	20	-	-
		25	-	-
Noise Figure @Pin= -30dBm	dB	-	5	6
Polarization Dependent Gain	dB	-	-	0.5
Polarization Mode Dispersion	ps	-	-	0.5
Return Loss (Pump LD off)	dB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

Electrical Specifications

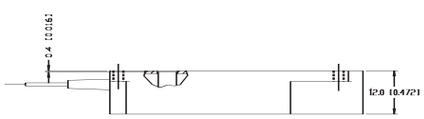
Parameters	Unit	Min.	Typ.	Max.
Output Monitor Accuracy	dB	-0.5	-	+ 0.5
Power Supply Voltage	V	3.1	3.3	3.5
Power Consumption	W	-	-	1.0/1.5*

*1.0W for 20dB & 25dB signal gain options; 1.5W for 30dB signal gain option.

Dimensions



Bottom view



Side view

Unit: mm (inch)

Ordering Information

N	O	A	P	F						0	0	1	1	

Signal Gain @ Pin= -30dBm
20= 20dB
25= 25dB
30= 30dB

Default Mode
1= APC
2= ACC

Electronic Interface
R= RS-232
C= I²C

Operating Wavelength
0= C-band
1= L-band

Fiber Length
1= 1.0±0.1m

Pigtail Type
1= 900μm loose tube

Connector
0= None
1= FC/UPC
2= FC/APC
3= SC/UPC
4= SC/APC
5= LC/UPC
6= MU/UPC

This product information is subject to change without notice.