Ultra-Compact Low Cost Booster EDFA (Gain Block)

Features/Benefits

- Low cost
- Low power consumption
- Wide operating temperature range
- Smallest footprint
- Output power monitor

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
- Amplifier for transmitter line card
- Power equalization and flexible pre-emphasis

Gain Block Pin Assignment

Pin	Description
1	Pump laser diode anode (+)
2	Pump laser diode cathode (-)
3	Pump laser PD anode (+)
4	GND
5	Output monitor PD anode(+)
6	Output monitor PD cathode (-)

Pump laser diode anode shares the same pin with pump laser PD cathode

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.

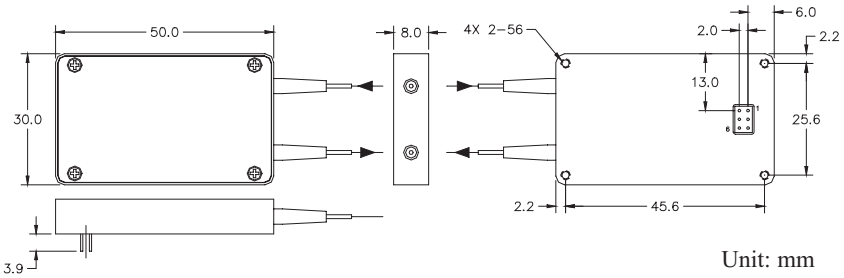
Optical Specifications

Parameters	Unit	Min.	Typ.	Max.
Operating Wavelength Range	nm	1528	-	1562
Input Optical Power (pin)	dBm	- 10	-	0
Total Output Power @ Pin= -6 ~ 0dBm	dBm	8	-	-
		10	-	-
Noise Figure	dB	-	6	7
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, 250µm or 900µm		
Dimensions	mm	30 x 50 x 8		

Electrical Specifications

Parameters	Unit	Min.	Typ.	Max.
Pump Laser Threshold Current	mA	-	-	150
Pump Laser Forward Current (BOL)	mA	-	210	300
Pump Laser Forward Voltage	V	-	1.66	1.95
Pump Laser Reverse Voltage	V	-	-	2.0
Output Monitor PD Responsivity	µA / mW	20	-	-
Output Monitor PD Reverse Voltage	V	-	5	20
Output Monitor PD Forward Current	mA	-	-	10
Dark Current (- 5V, 25°C)	nA	-	-	1

Dimensions



Unit: mm

Ordering Information

T	O	A	B	G			0	0	0	0	0	1		

Output Power @ Pin= -6dBm
08= 8dBm
10= 10dBm

Fiber Length
1= 1.0 ± 0.1m

Pigtail Type
1= 900µm loose tube
0= 250µm bare fiber

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.