



# 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
- Amplifier 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.

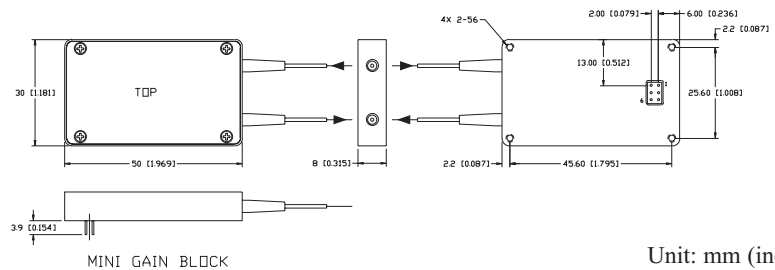
## Optical Specifications

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 (inch)

## Ordering Information

T	O	A	B	G			0	0	0	0	0	1		
												Output Power @ Pin= -6dBm	Fiber Length	Connector
												08= 8dBm	1= 1.0 ± 0.1m	0= None
												10= 10dBm		1= FC/UPC
														2= FC/APC
														3= SC/UPC
														4= SC/APC
														5= LC/UPC
														6= MU/UPC
														0= 250µm bare fiber

This product information is subject to change without notice.