

POCKET SIZE OPTICAL GAIN BLOCK

NARROWBAND / SINGLE CHANNEL PRE-AMPLIFIER SERIES

Product Description

Features

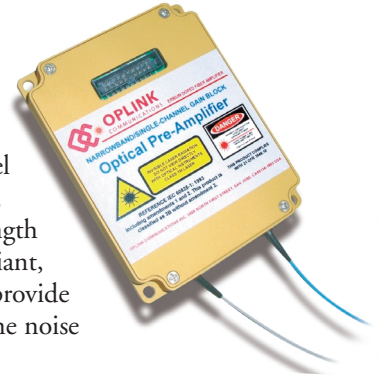
- ◆ Ultra compact size (90mm x 70mm x 10.4mm)
- ◆ Low power consumption
- ◆ Input and output monitor
- ◆ Low input power of -30dBm

Applications

- ◆ Narrowband or single channel amplification
- ◆ Access, metropolitan and long-haul networks
- ◆ Loss compensation for ROADMs
- ◆ Pre amplifiers and boosters

Pocket Size Optical Gain Block Narrowband / Single Channel Pre-Amplifier Series

The Narrowband/Single Channel Gain Block in its compact mountable package is designed for economical applications in C band single-channel and narrowband amplification. It can be used as a pre-amplifier for channel loss compensation and in multiple positions within access, metropolitan and long-haul networks as well as in wavelength add/drop modules. By utilizing Oplink's Telcordia-compliant, high-performance passive components, the amplifier can provide -5dBm output power with -30dBm input power, while the noise figure is less than 6dB across the entire C band.



Generic Optical Performance Specifications

Item	Symbol	Min	Typical	Max.	Units
Wavelength Range	λ	1529		1562	nm
Channel Number		1		16	
Total Input Power	P _{in}	-30		-8	dBm
Total Output Power	P _{out}	-5			dBm
Noise Figure	NF		5.0	-	dB
Polarization Sensitivity	PDL			0.2	dB
Polarization Mode Dispersion	PMD			0.5	ps
Optical Return Loss	RL	30			dB

Pin Information

Pin	Description	Pin	Description
1	Ground Monitor Photodiode	11	Reserved
2	Input Monitor Photodiode Cathode	12	Reserved
3	Input Monitor Photodiode Anode	13	Reserved
4	Output Monitor Photodiode Cathode	14	Reserved
5	Output Monitor Photodiode Anode	15	Reserved
6	Thermistor 1	16	Reserved
7	LD+ (pump anode)	17	Ground Pump
8	LD+ (pump anode)	18	Thermistor 2
9	Pump Monitor Photodiode Cathode	19	LD- (pump cathode)
10	Pump Monitor Photodiode Anode	20	LD- (pump cathode)

Environmental Specifications

Parameter	Symbol	Min	Max.	Units
Operational Temperature Range	T _{op}	-5	70	°C
Storage Temperature Range	T _{st}	-40	70	°C
Operating Humidity (non-condensing)		5	95	%RH

Oplink Fiber Optic Product Lines

- ◆ Amplifier Components
- ◆ Amplifier Modules
- ◆ DWDMs
- ◆ Switching/Routing/
Signal Conditioning

Mechanical Footprint



Custom specs and configurations available. Please contact Oplink for more information.



Oplink Communications, Inc.

3469 North First Street San Jose, CA 95134-1803

Tel: (408) 433-0606 Fax: (408) 433-0608

Email: Sales@Oplink.com