





KeyFeatures

Output Power up to +20 dBm

Industry Standard Form Factor (70x90x12mm)

Gain-Flattened Version for Wideband Amplification

Uncooled Pump Option

Telcordia Qualified

ROHS Compliant

Applications

Long Haul and Metro Networks

Transmitter and Receiver Amplification

Single Channel, Narrowband and Wideband DWDM

Compact EDFA

The Manlight compact EDFA is field proven and offers excellent optical performance and reliability. The compact EDFA gain block is intended for DWDM applications in the C- & L-band wavelength range. It can be optimized to perform as a booster, line or pre-amplifier in DWDM systems and subsystems for metro and long haul applications.

The gain block contains input and output monitor diodes and isolators. The EDFA can be configured to use an uncooled pump laser that enables low power consumption which allows system designers to achieve compact solutions, lower costs and flexibility in system design.



For moreInfo

Please contact us at:

North America: 514.748.4848

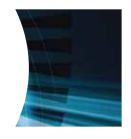
888.922.1044

Europe & Asia: +33 (0) 2 96 04 20 00 or via e-mail at sales@3spgroup.com

3SPGroup

Compact EDFA with Control Electronics





SPECIFICATIONS*

OPTICAL CHARACTERISTICS

Parameters	Booster Single-Channel	Booster Single-Channel	Gain- Flattened	Unit
Wavelength Range	1529 - 1565	1529 - 1565	1529 - 1565	nm
Maximum Output Power	+20	+5	+20	dBm
Input Power Range	-10 to +4	-30 to -10	-25 to -5	dBm
Nominal Gain	20	30	25	dB
Gain Flatness (typ) @ Nominal Gain	N/A	N/A	1.0	dB
Gain Flatness (max) @ Nominal Gain	N/A	N/A	1.5	dB
Noise Figure (typ) @ Nominal Gain	5.0	5.0	5.0	dB
Noise Figure (max) @ Nominal Gain	5.5	5.5	5.5	dB
Polarization Mode Dispersion	0.3	0.3	0.3	ps
Polarization Dependent Gain	0.3	0.3	0.4	dB

ELECTRICAL& ENVIRONMENTAL CHARACTERISTICS

Power Consumption (typical / max EOL)	4.0 / 8.0	2.0 / 3.0	4.0 / 8.0	W
Power Consumption (Uncooled version)	1.0 / 1.5	0.5 / 1.0	1.0 / 1.5	W
Operating Case Temperature	0 to +70			°C
Storage Temperature	-40 to +85			°C
Operating Humidity (non-condensing)	5 - 95			% RH

Revised March 2012

Pin#	Description	Pin#	Description
1	GND	11	Thermoelectric Cooler, Positive
2	Input Monitor Cathode	12	Thermoelectric Cooler, Positive
3	Input Monitor Anode	13	Thermoelectric Cooler, Positive
4	Output Monitor Cathode	14	Thermoelectric Cooler, Negative
5	Output Monitor Anode	15	Thermoelectric Cooler, Negative
6	Thermistor	16	Thermoelectric Cooler, Negative
7	Laser Diode Anode	17	GND
8	Laser Diode Anode	18	Thermistor
9	Backface Monitor Cathode	19	Laser Diode Cathode
10	Backface Monitor Anode	20	Laser Diode Cathode





Œ

3SPGroup

North America: 514.748.4848

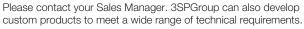
888.922.1044

Europe and Asia: +33 (0) 2 96 04 20 00 www.3spgroup.com • sales@3spgroup.com



Information is subject to change without notice.

©2011 3S PHOTONICS S.A.S.



Please note: information in this document is typical and must be specifically confirmed

in writing by your supplier before it becomes applicable to any order or contract.







