

HWT-EDFA-NANO Series

Key Features

Output Power up to +18 dBm

Ultra Miniaturized Form Factor
(50x30x8mm)

Uncooled Pump Laser

Gain-flattened version

ACC, APC and AGC modes

Low Power Consumption

Telcordia Qualified

ROHS Compliant

Applications

40/100G Transponders amplification

Single Channel and
Narrowband DWDM

Booster and Pre-amp Applications

YOUR APPLICATION

For more info

Please contact us at:

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or via e-mail at sales@3spgroup.com

NanoEDFA Product Line

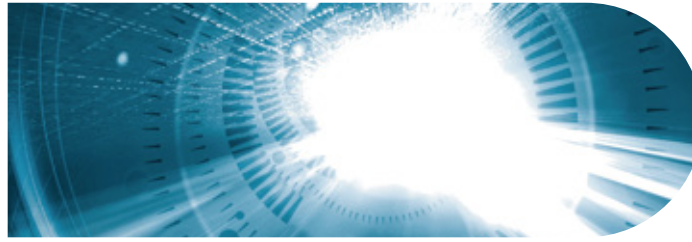
1.5 μ m Erbium Doped Fiber Amplifier

The Manlight NanoEDFA offers excellent optical performance and reliability in an ultra compact form factor. This NanoEDFA is intended for single channel and narrowband applications in the C-band wavelength range and is the ideal solution for amplification in the 40/100G transponders due to its miniaturized package. The NanoEDFA uses an uncooled pump laser that enables very low power consumption which allows system designers to achieve compact solutions, lower costs and flexibility in system design.



MiniEDFA Product Line

1.5µm Erbium Doped Fiber Amplifier



HWT-EDFA-NANO

aa-bb-xxCyy-zzz

aa: GM for Gain Module or GB for Gain Block (no electronics)

bb: SC for Single Channel or FG for Fixed Gain

xx: Amplifier gain (from 8 to 40dB)

yy: Output power in dBm

zzz: connector type

SPECIFICATIONS* OPTICAL CHARACTERISTICS

Parameters	Booster Single-Channel	Pre-Amp Single-Channel	Fixed Gain	Unit
Wavelength Range	1529 - 1565	1529 - 1565	1529 - 1565	nm
Maximum Output Power	+18	+5	+18	dBm
Input Power Range	-10 to +4	-30 to -10	fixed from 8 to 40	dBm
Nominal Gain	20	30	25	dB
Noise Figure (typ) @ Nominal Gain	5.0	5.0	5.0	dB
Noise Figure (max) @ Nominal Gain	5.5	5.5	6.5	dB
Polarization Mode Dispersion	0.3	0.3	0.3	ps
Polarization Dependent Gain	0.3	0.3	0.3	dB

ELECTRICAL & ENVIRONMENTAL CHARACTERISTICS

Power Consumption (typical)	0.8	0.4	0.4 to 1.5	W
Consumption (maximum EOL, worst case)	1.0 / 1.5	0.5 / 1.0	1.0 / 1.5	W
Mechanical dimensions	55 x 35 x 10 - Gain Module • 50 x 30 x 8 - Gain Block			mm
Operating Case Temperature	0 to +70			°C
Storage Temperature	-40 to +85			°C
Operating Humidity (non-condensing)	5 - 95			% RH

ELECTRICAL PIN-OUT

Revised March 2012

Pin #	Description	Pin #	Description
1	GND	8	Laser Diode Anode
2	Input Monitor Cathode	9	Laser Diode Monitor Cathode
3	Input Monitor Anode	10	Laser Diode Monitor Anode
4	Output Monitor Cathode	11	Laser Diode Cathode
5	Output Monitor Anode	12	Not Connected
6	Not Connected	13	Ground
7	Laser Diode Anode	14	Laser Diode Cathode



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.

Information is subject to change without notice.

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ORDERING INFO

Please contact your Sales Manager. 3SPGroup can also develop custom products to meet a wide range of technical requirements.

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