



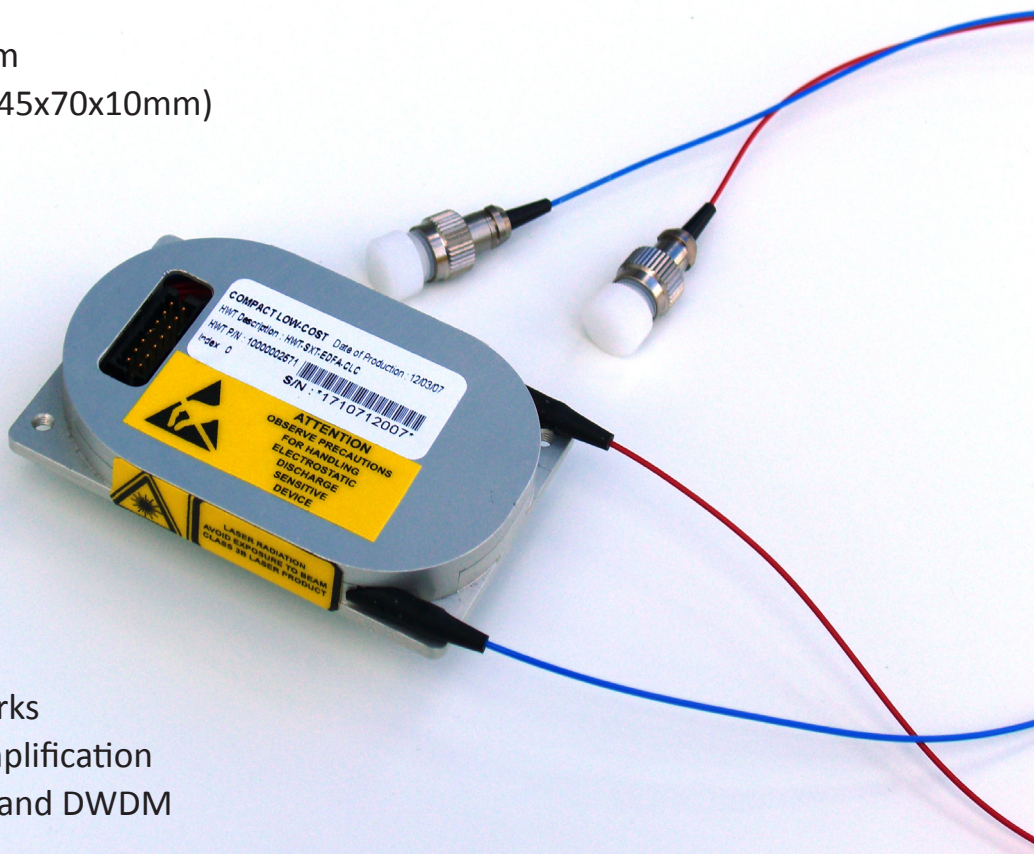
# HIGH Power Fiber Technology



## Micro EDFA

### Features:

- Output Power up to +18 dBm
- Ultra Compact Form Factor (45x70x10mm)
- Uncooled Pump Laser
- Low Power Consumption
- Telcordia Qualified
- ROHS Compliant



### Applications:

- Long Haul and Metro Networks
- Transmitter and Receiver Amplification
- Single Channel and Narrowband DWDM

The Manlight Micro EDFA offers excellent optical performance and reliability in an ultra compact form factor. This Micro EDFA is intended for single channel and narrowband applications in the C-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 Micro EDFA uses an uncooled pump laser that enables low power consumption which allows system designers to achieve compact solutions, lower costs and flexibility in system design.

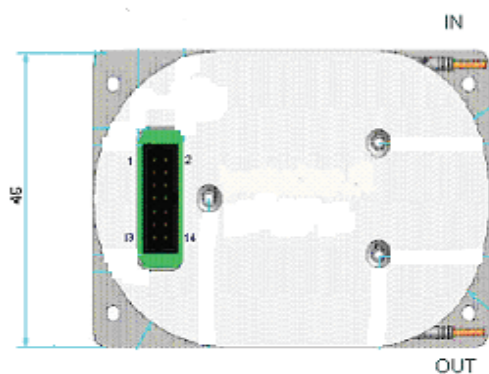
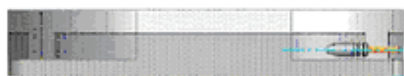
## Optical Characteristics

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

## Electrical & Environmental Characteristics

Power Consumption (typical)	0.8	0.4	W
Power Consumption (maximum EOL, worst case)	1.5	1.0	W
Operating Case Temperature	0 to +70		°C
Storage Temperature	-40 to +85		°C
Operating Humidity (non-condensing)	5 - 95		% RH

## Mechanical Drawing and Electrical Pin-Out



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

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