



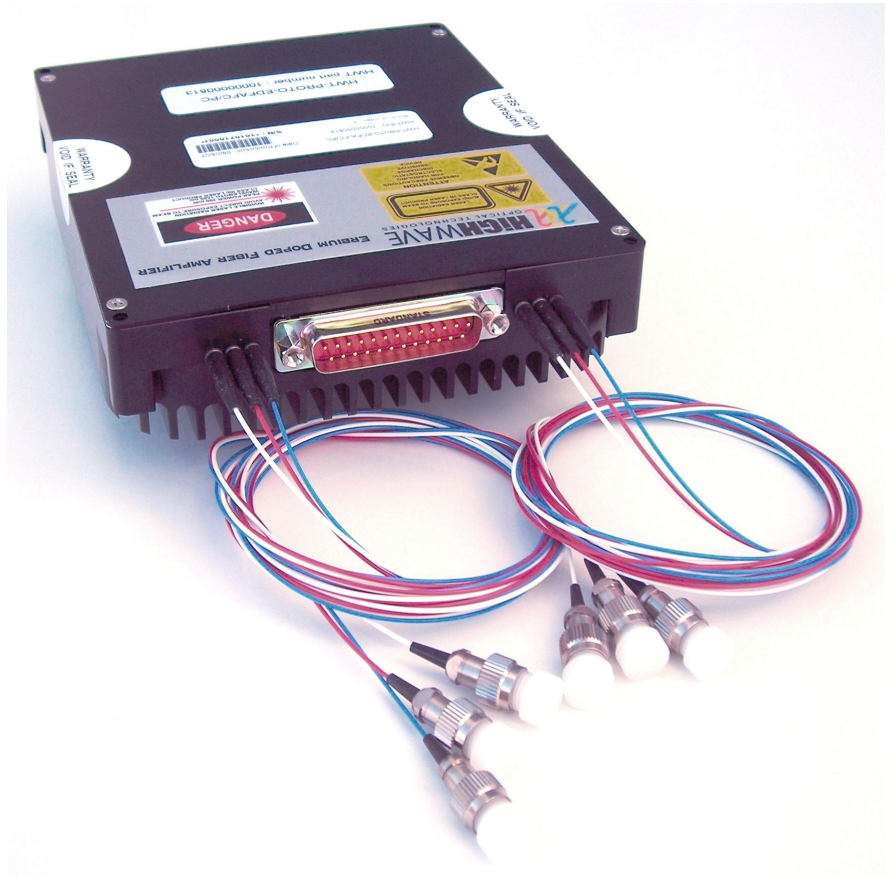
HIGH Power Fiber Technology



High Power Amplifier

Features:

- Output Power up to +35 dBm
- 1 to 16 Output Ports
- Cost Effective Amplification
- Low Power Consumption
- RS-232 Command Interface
- ROHS Compliant



Applications:

- CATV
- FTTx, PON
- Free space, Broadband Access
- R&D, Test & Measurement

The Manlight High Power Amplifier for CATV and FTTx applications offers a cost effective solution in bringing the bandwidth closer to the end users. With a unique design based on Manlights in-house pump combiner and optical know-how, the high power amplifiers are optimized to offer high power and low noise figure with proven reliability and quality. The output power can be distributed between 1 to 16 output ports. The use of efficient and reliable uncooled pump diodes allows the Manlight amplifiers to reach high output powers with low overall power consumption. The control electronics featuring alarms, automatic shutdown, and RS-232 communication interface is driven by a 5 / 24 VDC power supply.

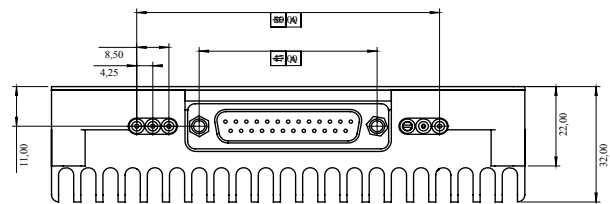
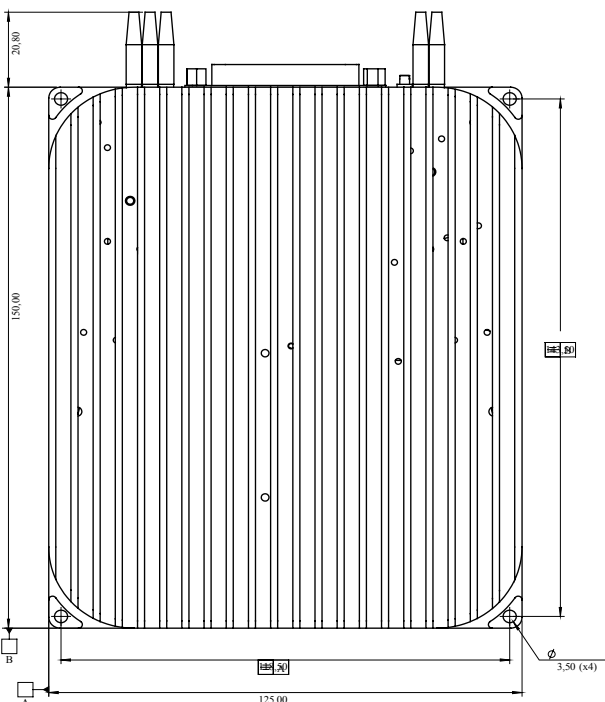
Optical Characteristics

Parameter	General	16x20 dBm	Unit
Wavelength Range	1530-1565	1545 - 1565	nm
Output Power	Up to +35	+20 per port	dBm
Number of Output Ports	1-16	16	
Input Power Range	-10 to +10	-10 to +10	dBm
Noise Figure @ 1550nm, +0dBm Input Power	5.5	5.5	dB
Port to Port Variation	0.6 for 8 ports	1.0	dB
Polarization Mode Dispersion	0.5	0.5	ps
Polarization Dependent Gain	0.4	0.4	dB

Electrical & Environmental Characteristics

Power Consumption (typical)	-	32	W
Power Supply Voltage	5 or 24		VDC
Operating Case Temperature	0 to +65		°C
Storage Temperature	-40 to +85		°C
Operating Humidity (non-condensing)	20 - 85		% RH
Connector type	D-sub 25		
Mechanical Dimensions	150 x 125 x32 or 240 x170 x 38		mm

Mechanical Drawing



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