

# Cybel O-Band CIRTA 1300 Fiber Amplifier

## Key Features

- Central wavelength: 1300 nm
- Gain: 22 dB @ Pin=-15 dBm
- Pout: 22 dBm @Pin= 0 dBm
- Gain bandwidth: >75 nm
- Noise figure: <6 dB
- Low power consumption: <15 W
- Front touch panel control & USB
- Compact & turn-key unit



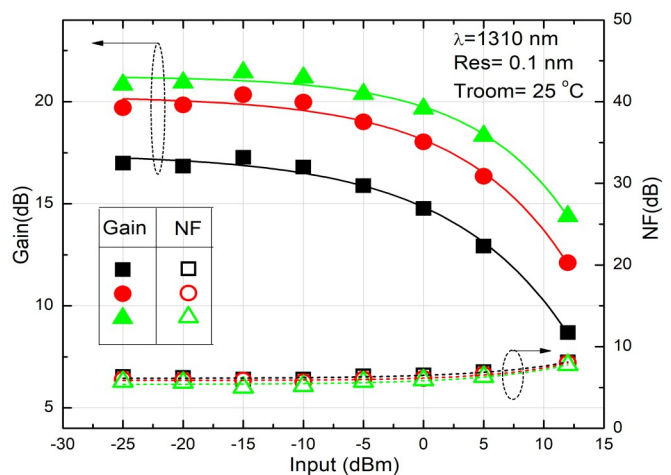
**CIRTA - 1300**  
Turn-key half-benchtop - 9.5" 2U

## Description

**Cybel's CIRTA-1300** Bismuth-doped fiber amplifier (BDFA) offers a 22 dB signal gain and a 6 dB noise figure. This BDFA provides over 75 nm of bandwidth with a central wavelength of 1300 nm. It is available in turn-key unit and compact OEM.

**The CIRTA-1300** is a 9.5 inch 2U turn-key benchtop unit controlled either from an analog front port or USB communication panel. It is ideal instrument for laboratory environments and applications such as optical fiber communications, LIDAR & OTDR.

## Gain & Noise Figure vs Input Power



## Applications

- Optical Communications
- Seed Laser
- Frequency Conversion
- LIDAR

# Cybel O-Band CIRTA 1300 Specifications

OPTICAL	Unit	Min	Max	Comments
Optical Bandwidth	nm	1260	1360	Single Mode Operation Wavelength
Input Signal Power	dBm	-20	10	
Output Signal Power	dBm	22		With Pin = 0 dBm(1 mW)
Output Power Tunability	%	5 - 100		At Pout = 22 dBm
Output Beam Quality (M <sup>2</sup> )	M <sup>2</sup>	1.1		
Signal to Noise Ratio (OSNR)	dB	≥ 45		OSA Res. = 1 nm
Output Power Variation (RMS)	%	+/- 3		After 20 Min. Warm-up
Output Fiber Length	m	> 0.7		Longer Fiber at Request
Input Fiber Length	m	> 0.7		Longer Fiber at Request
Output Isolation	dB	20		
Connectors		FC/APC		Other Connectors and Collimators Available
<b>ELECTRICAL</b>				
Voltage	V	110-220		@ 60-50 Hz
Warm up Time	min	20		
Power Consumption	W	<15		25 °C, @Pout max = 22 dBm
Control Interface		USB		
Mode of Operation		ACC		
<b>GENERAL</b>				
Dimensions	inch	9.5		2U Half-Benchtop, Rackmount optional
Operating Case Temp.	°C	15 to 30		

## CUSTOMIZATION

The CIRTA –1300 is an amplifier platform that can be customized to match Customers' specific requirements. Please contact Cybel.

**COMPLIANCE with Regulatory Requirements:** These benchtop products are Class 4 lasers as designated by the Center for Device and Radiology Health(CDRH). As such they are intended only in integration into other equipment and do not comply with CDRH requirement. It is the customer responsibility for CDRH certification of the full system that incorporates this industrial laser.

