

Key Features

- Small signal gain : >40 dB
- Saturated P_{out} :
 - ◆ 1W (+30 dBm)
 - ◆ 2W (+33 dBm)
 - ◆ 5W (+37 dBm)
- Bandwidth 1880 to 2020nm
- Single frequency operation
- Single mode, M² ~ 1
- Compact and rugged design
- SM/PM versions
- RS232 or USB interface

Applications

- Test and measurement
- Optical preamplifier
- LIDAR
- Interferometry

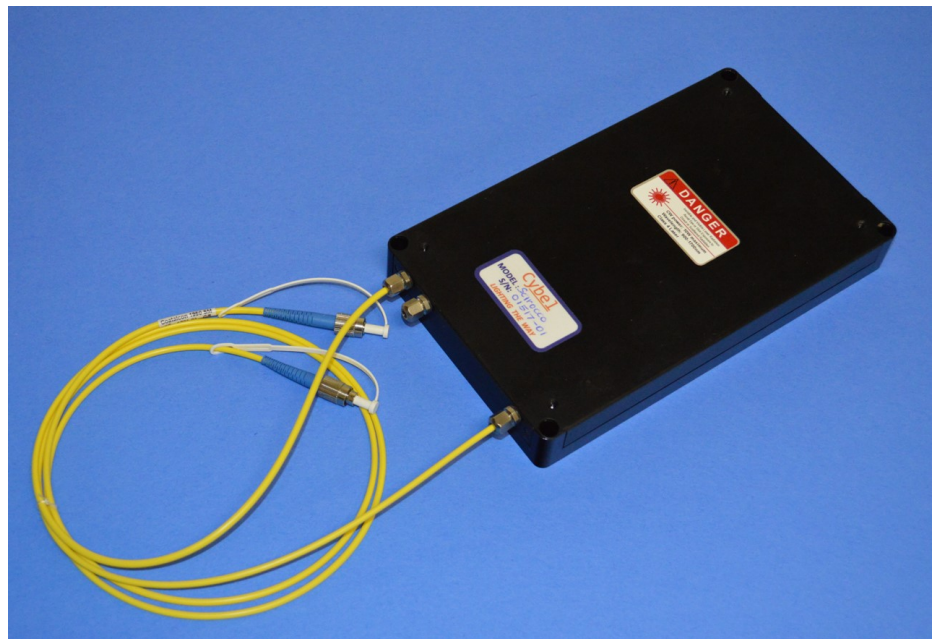
TDFA Amps & Lasers

Also available at different wavelengths and in either standard and PM Fiber versions.

- ◆ MISTRAL 2050

The **Cybel SCIROCCO-1950** is a broadband Thulium-doped fiber amplifier (TDFA) covering the spectral window from 1880 to 2020nm. This eye safe TDFA is designed for amplification in fiber systems requiring a combination of high gain, high output power, and low noise figure (NF). Greater than 40 dB small signal gain and 30/33/37 dB saturated gain are available at 1950nm with an NF of less than 5 dB. In saturation, this amplifier delivers P_{out} values of +30/+33/+37 dBm (1W/2W/5W) over a 140 nm optical bandwidth with an in-band OSNR of greater than 50 dB.

The **SCIROCCO-1950** comes in a compact and efficient OEM module for both the standard single mode and polarization maintaining fiber versions. All the amplifier operating parameters, as well as ACC and APC modes, are controlled via either an RS232 or a USB port.



SCIROCCO-1950 Specifications

OPTICAL	Unit	Scirocco 1950	Comments
Wavelength	nm	1880-2020	3 dB small signal BW
Small Signal Gain	dB	>40	@-30 dBm Pin,1950nm
Input Signal Linewidth	MHz	< 3	
Minimum Output Power	dBm (W)	+30/+33/+37 dBm (1/2/5W)	@0 dBm Pin,1950nm
Noise Figure	dB	<5 <7	@-30 dBm Pin,1950nm @0 dBm Pin, 1950nm
Polarization Ext. Ratio	dB	≥ 17	PM version
Beam Quality (M ²)		~1	
Output Isolator		Standard	
In/Out Fiber Length	m	1	Armored cable optional
Fiber		Single mode, low bend loss	FC/APC connectors
Monitor Fiber Length	m	1	Armored cable optional
ELECTRICAL			
Voltage	VDC	18 to 30	
Warm-up Time	min	20	
Power Consumption	W	75	@P _{out max} = 5W
Interface		USB and RS232	
Control Mode		ACC-APC	
GENERAL			
Dimensions	mm	197 x 118 x 26	w/o heat sink
Storage Temperature	°C	-20 to 65	
Operating Case Temp.	°C	10 to 40	
Humidity	%	5 to 95	Non condensing

CUSTOMIZATION

The **SCIROCCO-1950** is an amplifier platform that can be customized to match Customer's specific requirements. Please contact Cybel.

COMPLIANCE with Regulatory Requirements: These OEM 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 requirements. It is the customer responsibility for CDRH certification of the full system that incorporates this industrial laser.



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