

Key Features

- Small signal gain : 40 dB
- Low Noise figure: <5dB
- Saturated Pout
 - 1W (30dBm)
 - 2W (33dBm)
 - 5W (37dBm)
- Bandwidth 1880 to 2020nm
- Single frequency operation
- Single mode, $M^2 \sim 1$
- SM & PM fiber versions
- RS 232-USB interface
- Amplifier protection for LOS

The **Cybel SCIROCCO-1950** is a broadband Thulium-doped fiber amplifier (TDFA) covering the spectral window from 1880nm to 2020nm. This eye safe TDFA is designed for amplification in fiber systems requiring a combination of high gain and low noise figure (NF). Up to 40 dB small signal gain with an NF of less than 5 dB power are available at 1950nm. In saturation, this amplifier delivers an output power of +30/33/37dBm (1/2/5 W) over a 140nm optical bandwidth with an in-band OSNR 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. A loss of signal (LOS) protection is available as an option. All the amplifier operating parameters, as well as ACC and APC modes, are controlled via a RS 232 port.

Applications

- Test and measurement
- Optical preamplifier
- LIDAR

SKYLINE SERIES

Also available at different standard wavelengths with same high performance and compact footprint:

- ◆ MANTARAY-1060
- ◆ STINGRAY-1550
- ◆ SCIROCCO-1950
- ◆ HELIOS-2100



SCIROCCO-1950 Specifications

OPTICAL	Unit	Value	Comment
Center wavelength	nm	1880-2020	3 dB small signal BW
Small signal gain	dB	>40	Pin 30dB @ 1950nm
Minimum output power	dBm/W	+30/33/37dBm (1/2/5W)	@0 dBm Pin, 1950nm
Noise figure	dB	<5	@-30dBm Pin
Polarization ext. ratio.	dB	≥ 17	PM version
Beam quality (M ²)	M ²	~1	
Output isolator	dB	30	SM or PM version
In/out fiber length	m	1	Armored cable FC/APC connectors
Fiber type		Standard or PM	SM or PM 1950-low bend loss
Monitor fiber length	m	1	Armored cable
ELECTRICAL			
Voltage	V	18 to 30	
Warm-up time	Min	20	
Power consumption	W	30	@Pout=1W
Control interface		RS 232	
Control mode		ACC-APC	
GENERAL			
Dimensions	mm	200x150x43	w/o heat sink
Storage temperature	°C	-20 to 65	
Operating temperature	°C	0 to 50	
Humidity	%	5 to 95	Non-condensing

CUSTOMIZATION

The **SCIROCCO-1950** is a laser platform that can be customized to match Customers' 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 requirement. It is the customer responsibility for CDRH certification of the full system that incorporates this industrial laser.



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