

### Key Features

- Output power 1 to 15W
- Spectral width < 0.1nm
- Single mode,  $M^2 \approx 1.1$
- Compact OEM unit
- Operation Temp: 0 to 50°C
- Standard or All-PM version
- Efficient cooling system
- Optional Output collimator

### Applications

- Optical Pumping
- Testing and Measurement
- Gas sensing
- Lidar
- Interferometry & spectroscopy

### SKYLINE SERIES

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

- ◆ STINGRAY-1550
- ◆ SCIROCCO-1950
- ◆ MISTRAL-2051
- ◆ HELIOS-2100

The CYBEL VULCAN-1550 series is a line of high power CW fiber lasers at a selected wavelength at 1550nm. The VULCAN-1550 laser delivers up to 15W of CW output averaged power with a random or linear polarization and a single mode high beam quality,  $M^2 < 1.1$ . This laser is designed for industrial as well as R&D applications.

The VULCAN-1550 laser comes in an OEM package ( 200x150x43mm<sup>3</sup> ) with either a standard or a PM fiber. Both the output power and key operating parameters are controlled from a RS 232 computer interface.

The SKYLINE is an efficient and compact all-fiber OEM unit specifically designed for airborne or ground sensing applications.



# VULCAN-1550 Specifications

OPTICAL	Unit	Value	Comment
Wavelength	nm	1550	Other wavelengths available
Spectral width	nm	<0.1	
Output power	W	1 to 15	Higher Pout available
Signal to noise ratio (OSNR)	dB	50dB	@Pout=5W
Output power stability	%	5	After 20min warm-up time
Polarization ext. ratio	dB	≥ 18	PM version
Max Modulation frequency	kHz	1	50% duty cycle
Beam quality (M <sup>2</sup> )	M <sup>2</sup>	<1.1	
Output isolator		Optional	Output collimator as an option
In/out fiber length	m	2	3mm armored cable optional
Connector		FC/APC	Other connectors and Collimators available
ELECTRICAL			
Voltage	V	18 to 30	
Warm-up time	min	20	
Power consumption	W	200	@Pout max=20W
Control interface		RS 232	
Control mode		ACC	
GENERAL			
Dimensions	mm	200x150x43	w/o heat sink
Storage temperature	°C	-20 to 65	
Operating case temperature	°C	0 to 50	Cooling via forced air
Operating relative humidity	%	5 to 95	Non-condensing

## CUSTOMIZATION

The **VULCAN-1550** 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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