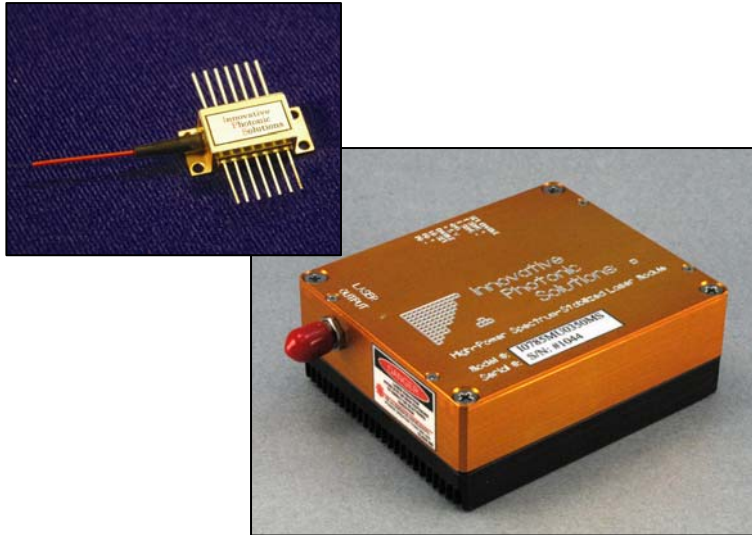


## 1064 nm Single Mode Spectrum Stabilized Laser Model # I1064SB0300P



### Features:

- High Power Single Mode Output
- Ultra-Narrow Spectral Linewidth (< 1 MHz)
- Stabilized Output Spectrum (< 0.007 nm/°C)
- Excellent Beam Quality ( $M^2 < 1.1$ )
- Capable of High Speed Pulse Operation

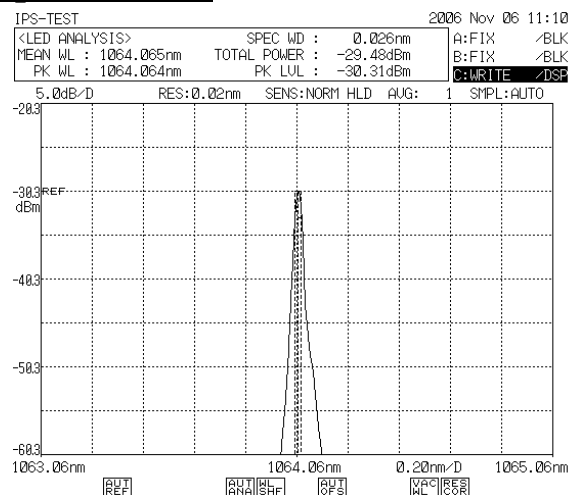
### Target Applications:

- Fiber Laser Seeding
- Solid State Laser Seeding
- Interferometry
- Remote Sensing
- Frequency Doubling

Innovative Photonic Solution's proprietary Single-Mode Spectrum Stabilized Laser features high output power with ultra-narrow spectral bandwidth and a diffraction limited output beam. Specifically designed for seeding pulsed solid state and fiber lasers, this product offers up to 3 W of peak power from a single mode PM fiber. The exceptional peak power output capability of this device enables creative system designers to eliminate expensive preamplifiers and can offer very significant cost and performance advantages as a result.

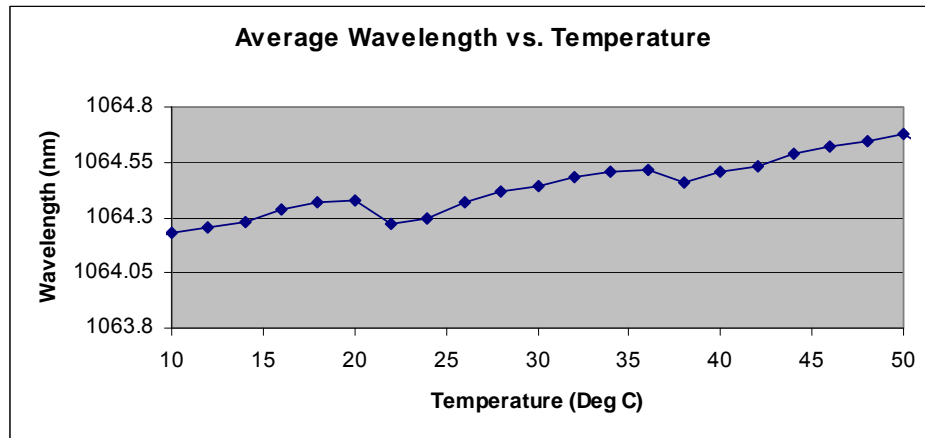
The I1064SB0300P is available in both PM fiber coupled and open beam formats and can be packaged in either a standard or high speed RF compatible 14-Pin Butterfly package, in an integrated OEM module, or in a fully integrated module with user configurable temperature and power control electronics. Lasing wavelength can be accurately specified and repeatedly manufactured to within 0.1 nm.

### Typical Spectral Plot:



**Ultra-Stable Performance  
With Spectral Linewidth  
As Low As 150 KHZ**

## Operational Characteristics:



Laser exhibits characteristics of both DFB and ECL lasers

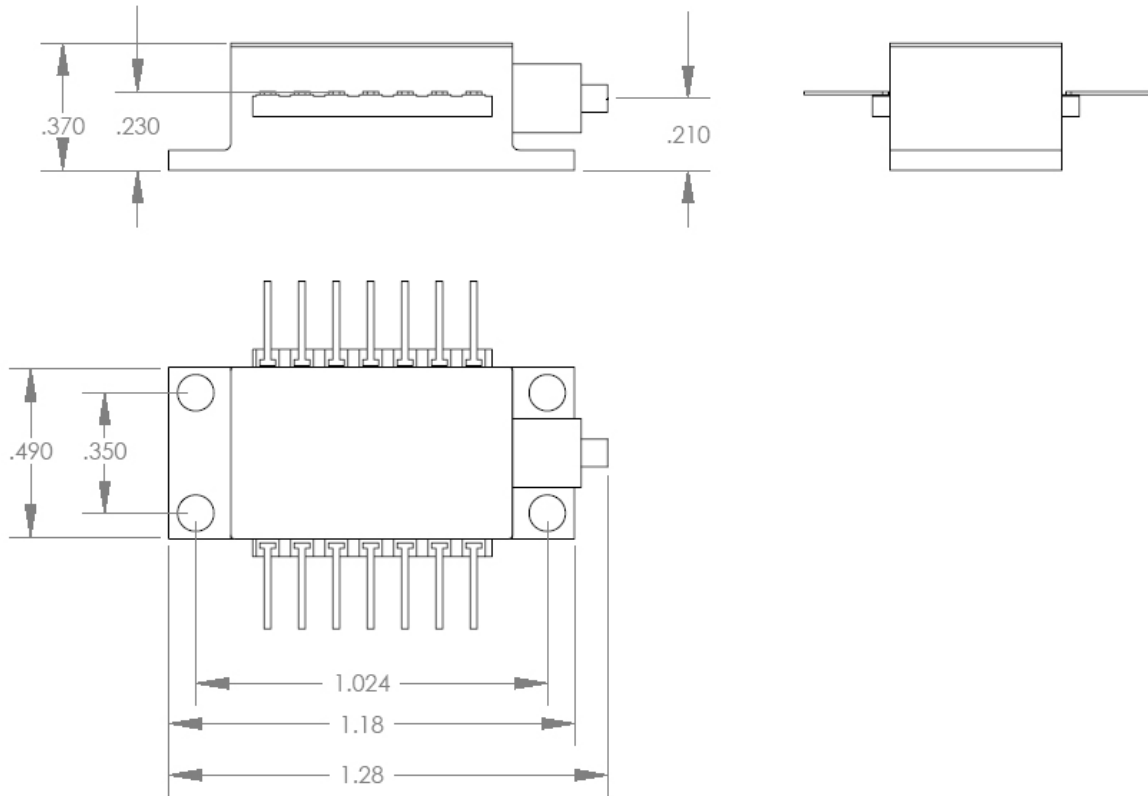
## Product Specifications:

Parameter	Test Conditions	Units	I1064SB0300PZ		
			Min	Typ	Max
Stabilized Lasing Wavelength	Peak $\lambda$ measured in Vacuum at lop and TEC @ 25-35 deg. C	nm	1064.00	1064.40	1064.80
Spectral Width	FWHM at lop and TEC @ 25-35 deg. C	nm		<1 MHz	
Output power	CW Output from PM fiber at at lop and TEC @ 25-35 deg. C	mW	300		
Laser Operational Current	lop	mA			750
Laser Operational Voltage	Compliance limited	V			2.2
Polarization Extinction Ratio (PER)		dB	20		
TEC Current Limit		A			2.5
TEC Voltage Limit	Compliance limited	V			4.5
Operational Temperature Range		Deg C	10		50

Substitute <b>Z</b> in part number schema with:		Blank for No Connector
	<b>A</b>	For FC/APC

**Custom wavelengths, power levels, & packaging configurations are available upon request.**

## Mechanical Specifications:



## BF Module Pin-Out:

Package Pin-Out	
Pin #	Name
1	TEC +
2	THERMISTOR (10K Ohm @ 25C)
3	PD ANODE
4	PD CATHODE
5	THERMISTOR
6	NC
7	NC
8	NC
9	LASER CATHODE (-)
10	LASER ANODE (+)
11	LASER CATHODE (-)
12	NC
13	CASE GROUND
14	TEC -

