

## Description:

Ondax's 785nm, 600mW Wavelength Stabilized Laser is a multi-mode, miniature laser in a butterfly, fiber-coupled package with integrated TEC. The stabilization is achieved using the Ondax Volume Holographic Grating (VHG) PowerLocker®.

The laser has a very low temperature dependence and precise center wavelength over the locked region.

## Features:

- Spectral linewidth (0.15nm)
- Wavelength stability (0.01nm/°C)
- 100um MM fiber
- Butterfly package
- Custom wavelengths available

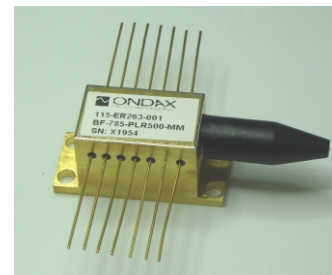
## Applications:

Raman spectroscopy, sensing, metrology, medical, graphic arts, military, and analytical instrumentation.

**High Power**

**Fiber-coupled**

**Narrow Linewidth**



## Specifications:

### Operating Specifications

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Threshold Current	$I_{th}$	CW		325		mA
Operating Current	$I_{op}$	$P_o = 600 \text{ mW}$		1100	1500	mA
Operating Voltage	$V_o$	$P_o = 600 \text{ mW}$		1.9	2.2	V
Lasing Wavelengths	$L_p$	$P_o = 600 \text{ mW}$ $T=T_c$	784.5	785	785.5	nm
Linewidth		$P_o = 600 \text{ mW}$ $T=T_c$		0.15	0.25	nm
Central Stabilized Temperature *	$T_c$	$P_o = 600 \text{ mW}$	20		40	°C
Stabilized Temperature Range *	$T_r$	$P_o = 600 \text{ mW}$	10			°C
Differential Efficiency	DE (dP/dI)			0.7		mW/mA
Storage Temperature			-20		80	°C
TEC Current					2	A
TEC Voltage					4	V
Fiber Type		105um core/900um tubing/0.22 NA				
Connector		FC/PC or FC/APC				

Specifications are with case temperature of 25° C and non-condensing, unless otherwise noted.

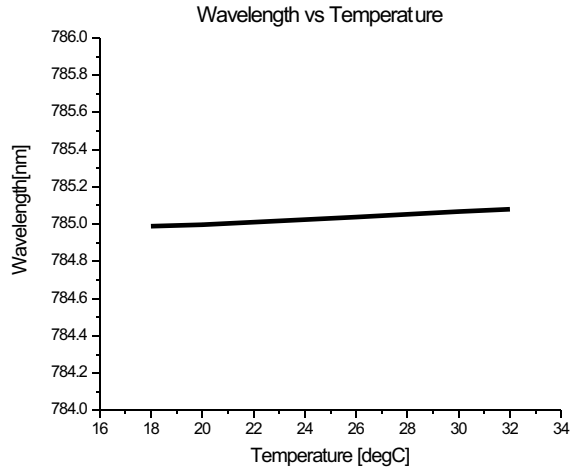
\*Temperature set point is internal TEC set point. R-T thermistor data available to determine actual thermistor setting.

Specifications are subject to change without notice. Each purchased laser is provided with test data.

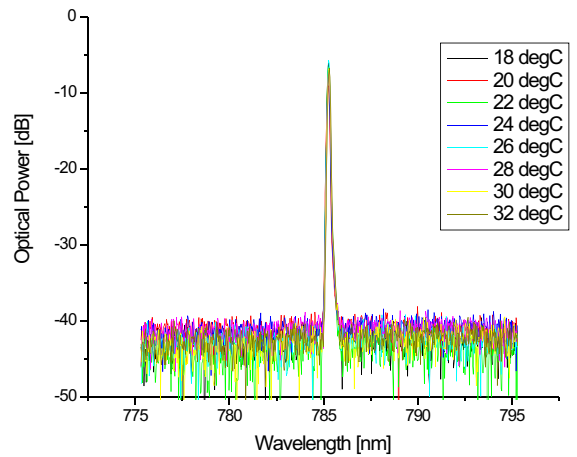
Please refer to this data before using the laser.

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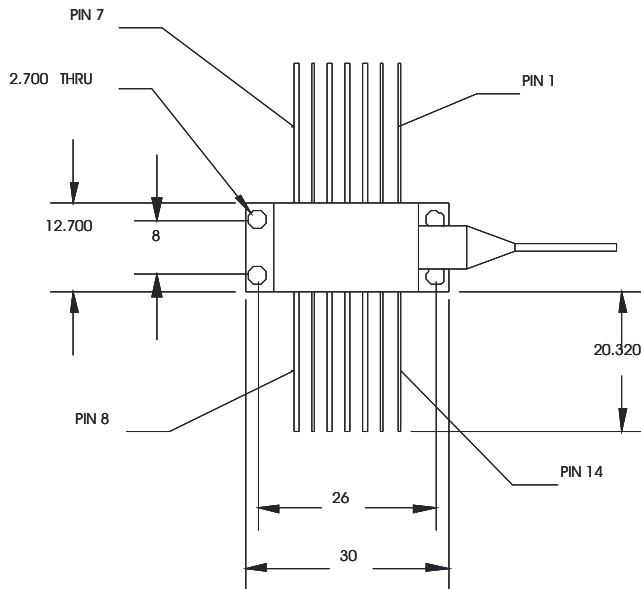
## Stabilized Temperature Range (Sample)



## Spectrum (Sample)

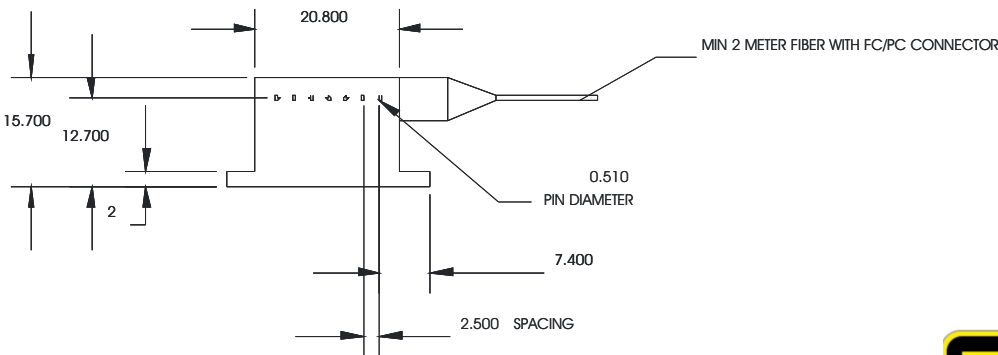


### TOP VIEW



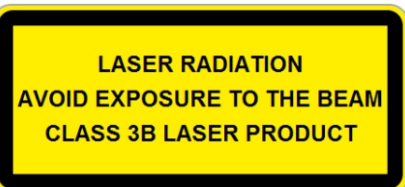
### PIN OUT

PIN	DESCRIPTION
1	TEC+
2	THERMISTER
3	PD ANODE
4	PD CATHODE
5	THERMISTER
6	NC
7	NC
8	NC
9	NC
10	LASER ANODE
11	LASER CATHODE
12	NC
13	CASE GROUND
14	TEC-



### Model Numbers:

BF-785-PLR600-FC/PC  
 BF-785-PLR600-FC/APC  
 (FC/APC recommended)



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