



## **FIBERA INC.**

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### **POLYWave MULTIPOINT WAVELENGTH LOCKER**

*\* Patents pending*

- **Cost effective solution, accommodating 4+ lasers**
- **Compact foot print**
- **C and L Band Multi-Channel capability**
- **Athermal, no temperature control / compensation**

The Fibera **POLYWave Multipoint Wavelength Locker (PMWL)** series is a cost effective solution to meet demands of high accuracy wavelength stabilizer for DWDM systems. It is based on a newly developed proprietary packaging technology allowing efficient use of space while maintaining central wavelength accuracy within  $\pm 1.25$  GHz for ITU grid spacing down to 50 GHz.

The Fibera PMWL is hermetically sealed and is insensitive to environmental temperature variations. Hermetic seal not only ensures the accuracy of laser wavelength, but also the reliability of the device.

The Fibera PMWL can accommodate 4+ lasers source simultaneously. This is ideal for DWDM laser wavelength stabilization and wavelength management for METRO and Add/Drop applications.

The same Wavelength Locker can be utilized in multiple ITU grids. This reduction of components simplifies the overall system configuration minimizing your exposure to part procurement uncertainty.

#### **PRELIMINARY SPECIFICATIONS**

<b>Parameters</b>	<b>Units</b>	<b>Value</b>
Number of Ports	EA	4
Wavelength Range	nm	1525-1610
Channel Spacing	GHz	100 or 50
Center Channel Stability	GHz	$\pm 1.25$
PD Responsivity at ITU grid	A/W	$\geq 0.08$
PD Calibration Offset	dB	$\pm 0.8$
Operating Temperature	$^{\circ}\text{C}$	$0^{\circ}$ to $+70^{\circ}\text{C}$
Storage Temperature	$^{\circ}\text{C}$	$-40^{\circ}$ to $+85^{\circ}\text{C}$
Return loss	dB	$\geq 50$
Dimension (mm)	30 x 28 x 11	
Electrical Pins		
Pin 1, 4, 7, 10	PD 1 Anode (+)	
Pin 2, 5, 8, 11	PD 2 Anode (+)	
Pin 3, 6, 9, 12	Common Cathode (-)	

