TeraXion
An indie Semiconductor Company

WaveLock WVL Series of Wavelength Lockers

The WVL series of wavelength locking Fiber Bragg Gratings allow to precisely control and stabilize the wavelength of laser diodes.

TeraXion WaveLock series of FBG wavelength lockers are used to lock and stabilize the wavelength and intensity of laser diodes.

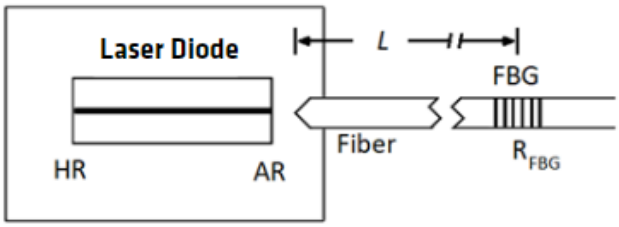
TeraXion's WaveLock series offer excellent performances in terms of wavelength accuracy, bandwidth, side mode suppression ratio, and insertion losses.

FBG wavelength lockers are used in many applications requiring lasers with high stability and wavelength accuracy, such as laser pumping, optical sensing, spectroscopy, scientific, etc.

Advantages

- High wavelength accuracy
- Low temperature dependence
- High side mode suppression ratio (SMSR)
- Low insertion loss
- Easy-to-integrate
- Custom wavelengths available

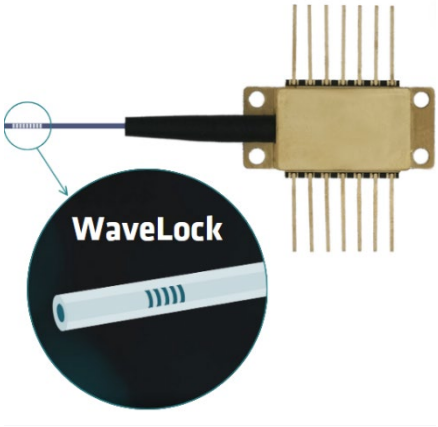
Typical Application



General Specifications

Optical Parameters	Specification	Units
Center wavelength (CWL) at room temperature (1),	700 to 2100	nm
Center wavelength tolerance	± 0.1	nm
Reflectivity @ CWL	3 to 20	%
Reflection Bandwidth	0.05 to 2	nm
Side Lobe Suppression Ratio (SLSR)	≥ 13	dB
Insertion Loss	< 0.1	dB
Wavelength referenced to	Air	
Mechanical parameters		
Fiber type	SM or PM	
Fiber recoat	Acrylate	
Pigtail Length (input side)	≥ 1	m
Pigtail Length (output side)	≥ 1	m
Connectors	Upon request	
Product compliance		
RoHS compliant	Yes	

(1) Room temperature = 20 °C to 23 °C



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