



# EYP-RWL-1060-00100-1300-SOT01-0000

Revision 1.00

07.09.2021

## SINGLE MODE LASER DIODES Fabry-Perot Laser



### Monitor Diode

Parameter	Symbol	Unit	min	typ	max	Measurement Conditions / Comments
Monitor Detector Responsivity	$I_{mon} / P_{opt}$	$\mu A / mW$	0.2		10	$U_R = 5 V$ , target values
Reverse Voltage Monitor Diode	$U_{R MD}$	V	3		5	

**Ordering Information:**



800 Village Walk #316  
 Guilford, CT 06437  
 Ph: 203-401-8093

Email orders to: [sales@xsoptix.com](mailto:sales@xsoptix.com)  
 Fax orders to: 800-878-7282

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### Package Dimensions

Parameter	Symbol	Unit	min	typ	max
Height of Emission Plane	$h_{EP}$	mm	2.30	2.45	2.50
Excentricity of Emission Center	R	mm			0.12
Pin Length	$l_{PIN}$	mm		14	

### Measurement Conditions / Comments

Reference plane: top side of TO header

Reference: center of outer diameter of header

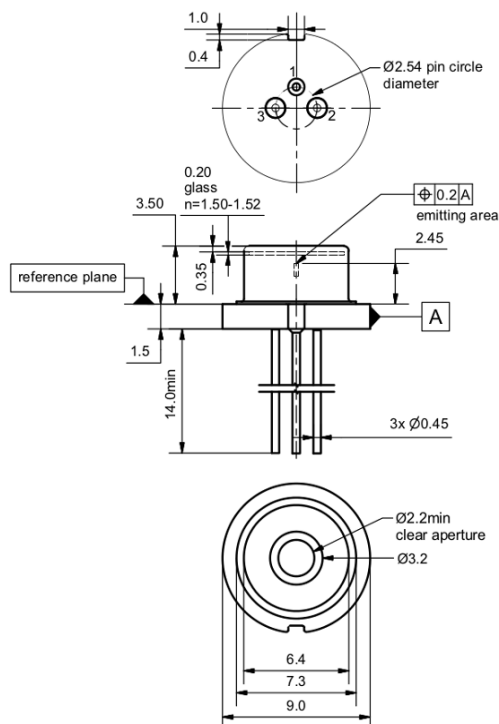
### Package Pinout

- 1 Laser Diode Cathode, Monitor Diode Cathode, Case
- 2 Photo Diode Anode
- 3 Laser Diode Anode

Bottom View



### Package Drawings



AIZ-16-0421-1455

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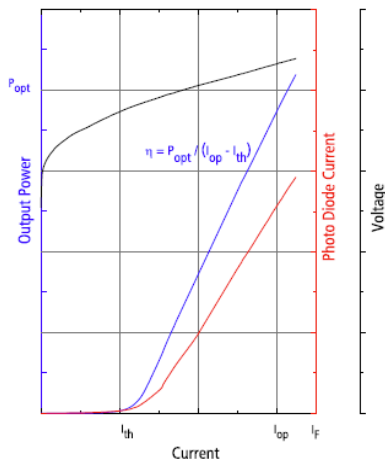
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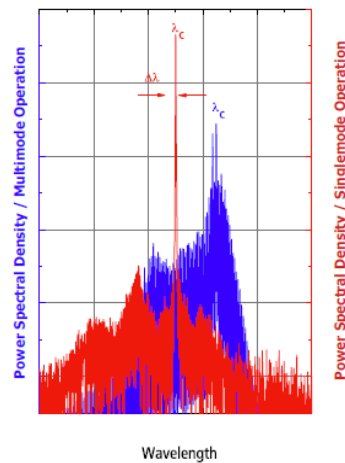


### Typical Measurement Results

Output Power vs. Current



Spectra at Specified Optical Output Power



### Unpacking, Installation and Laser Safety

Unpacking the laser diodes should only be done at electrostatic safe workstations (EPA). Though protection against electro static discharge (ESD) is implemented in the laser package, charges may occur at surfaces. Please store this product in its original package at a dry, clean place until final use. During device installation, ESD protection has to be maintained.

The RWL diode type is known to be sensitive against thermal stress. It should not be operated without appropriate injection from a seed laser. Operating at moderate temperatures on proper heat sinks will contribute to a long lifetime of the diode. The chip should be protected against moisture. A water vapor content below 5000 ppm is recommended for applications with high reliability requirements.

The laser emission from this diode is close to the invisible infrared region of the electromagnetic spectrum. Avoid direct and/or indirect exposure to the free running beam. Collimating the free running beam with optics as common in optical instruments will increase threat to the human eye.

Each laser diode will come with an individual test protocol verifying the parameters given in this document.

