EYP-RWL-1060-00750-4000-FLW01-0006



Revision 0.92

SINGLE MODE LASER DIODES Fabry-Perot Laser



General Product Information

Application	
Sensing	



Absolute Maximum Ratings

Daniero etc.	Comple al	11-4			
Parameter	Symbol	Unit	min	typ	max
Storage Temperature	T_S	°C	-40		85
Operational Temperature at Case	T_{C}	°C	-20		60
Forward Current	I _F	mA			950
Reverse Voltage	V_R	V			2
Output Power	P _{opt}	mW			680

Measurement Conditions / Comments

Stress in excess of one of the Absolute Maximum Ratings may damage the laser. Please note that a damaging optical power level may occur although the maximum current is not reached. These are stress ratings only, and functional operation at conditions beyond those indicated under Recommended Operational Conditions is not implied.

Recommended Operational Conditions

Parameter	Symbol	Unit	min	typ	max
Operational Temperature at Case	T_{C}	°C	0		50
Forward Current	I _F	mA			940
Output Power	P_{opt}	mW	650		

Measurement Conditions / Comments						
measured with integrating sphere						

Characteristics at 25° C at Begin Of Life

Parameter	Symbol	Unit	min	typ	max
Center Wavelength	λ_{C}	nm	1054	1064	1074
Spectral Width (FWHM)	Δλ	nm		0.3	3
Temperature Coefficient of Wavelength	dλ / dT	nm / K		0.3	
Output Power @ I _F : mW	P _{opt}	mW	650		
Slope Efficiency	η_{d}	W/A		0.9	
Threshold Current	I _{th}	mA		90	
Cavity Length	L	μm		4400	
Polarization	L	μm		TE	
Beam Propagation Factor	M^2			1.2	
Divergence parallel	$\Theta_{ }$	0		5	
Divergence perpendicular	Θ_{\perp}	0		20	
9 1 1					

Measurement Conditions / Comments
total output measured with integrating sphere
E field parallel to the base plate of the package
FWHM
FWHM

© All rights reserved by eagleyard Photonics GmbH. This data sheet will be electronically administered and is subject to change without notice. Uncontrolled copy when printed.

EYP-RWL-1060-00750-4000-FLW01-0006



Revision 0.92

SINGLE MODE LASER DIODES Fabry-Perot Laser



Package Dimensions

Parameter	Symbol	Unit	min	typ	max
Height of Emission Plane	h _{EP}	mm		4	

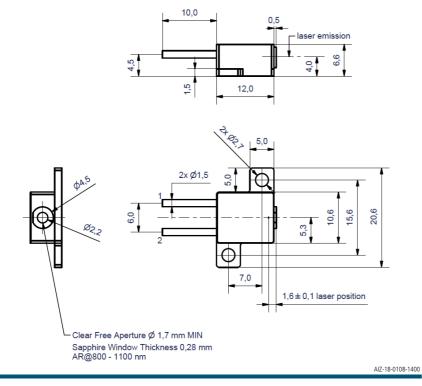
Measurement Conditions / Comments

Package Pinout

Pin 1 (isolated from case)	Anode (+)	
Pin 2 (isolated from case)	Cathode (-)	

Anode (+)
Cathode (-)

Package Drawings



EYP-RWL-1060-00750-4000-FLW01-0006

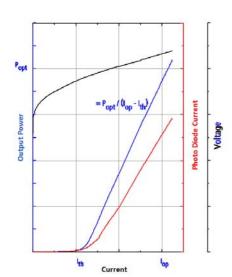


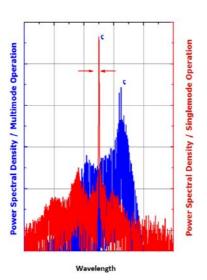
Revision 0.92

SINGLE MODE LASER DIODES Fabry-Perot Laser



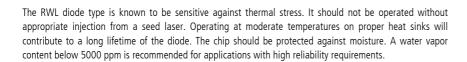
Typical Measurement Results





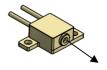
Unpacking, Installation and Laser Safety

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 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.





Laser Emission









