SPM1310-1W2-105M-2P

- IR Pigtailed Laser Diode
- 1310±30 nm, 1 W
- 105 μm Multi Mode Fiber
- FC/PC Connector
- 2-Pin Heat Load Package





Description

SPM1310-1W2-105M-2P is an infrared pigtailed laser diode, typically emitting at 1310 nm with an output power of 1.2 W. It comes in a 2-pin heat load package, and **105 μm multi-mode fiber** with FC/PC connector. Different fibers and connectors as well as built-in PD and TEC are optionally available.

Maximum Rating

Parameter	Cumbal	Val	Unit		
Parameter	Symbol	Min.	Max.	Onit	
Reverse Voltage	<i>U</i> _R		2.0	V	
Operating Temperature	T_{OPR}	+ 10	+ 30	°C	
Storage Temperature	T _{STG}	- 20	+ 80	°C	
Soldering Temperature (t _{max.} 3s)	T _{SOL}		+ 260	°C	

Electro-Optical Characteristics (TCASE = 25°C)

Parameter		Symbol	Values			Unit
			Min.	Тур.	Max.	
Peak Wavelength		λ_{P}	1280	1310	1340	nm
Spectral Width (FWHM)		$\Delta \lambda$		8.0		nm
Output Power		Po	1.0	1.2		W
Operating V	oltage	V F		1.4	1.6	V
Threshold Current		<i>I</i> th		0.4	0.7	Α
Operating Current		lo		3.3	3.5	Α
Fiber Spec.	Туре		Multi-mode			
	Core diameter		105*			μm
	Numerical Aperture (N.A.)		0.22			
	Connector		FC/PC*			
	Length			80		cm
Built-in Photodiode				optional		
Built-in TEC				optional		

^{*}SC or SMA905 con., 200µm or 400 µm core diameter available on request



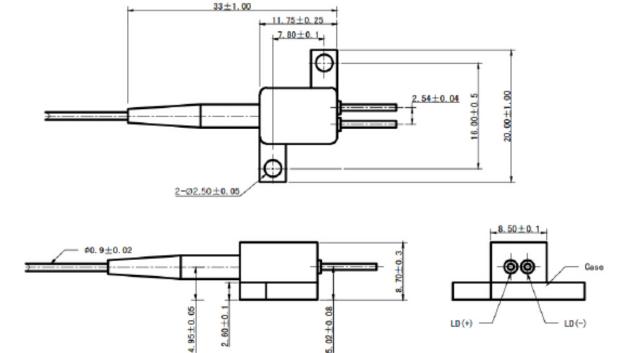
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Electrical Connection

Pin Configuration* Pin # Function Pin 1 LD Anode Pin 2 LD Cathode * subject to change

Outline Dimension



All dimensions in mm

Precautions

Safety

Laser light emitted from any laser diode may be harmful to the human eye. Avoid looking directly into the laser diode's aperture. The use of optical lenses will increase eye hazard



ESD Caution

Always do handle laser diodes with care to prevent electrostatic discharge. We advise to wearing wrist straps, and grounding all applicable work surfaces, when handling laser diodes

Operating Considerations

Usage of current regulated drive circuits is mandatory We advise to operate this laser diode with a current source and heat sink, and to never exceed the maximum specifications as outlined in this datasheet.



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The above specifications are for reference purpose only and subjected to change without prior notice

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