SPM520-1W2-105M-P2

- Green Pigtailed Laser Diode
- 520 nm, 1.2 W
- 105 µm Multi Mode Fiber
- FC/PC Connector
- 2-Pin Heat Load Package





Description

SPM520-**1W2-105M-P2** is a green pigtailed laser diode, typically emitting at 520 nm with an output power of typically 1.2 W. It comes in a 2-pin heat load package, and features a **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 Ratings*

Parameter	Cumbal	Val	Unit	
raiailletei	Symbol	Min.	Max.	Onit
Reverse Current	<i>I</i> _R		80	mA
Operating Temperature	T_{OPR}	0	+ 60	°C
Storage Temperature	$T_{ m STG}$	- 40	+ 85	°C
Soldering Temperature (t _{max.} 3s)	T_{SOL}		+ 260	°C

^{*}Operating close to or exceeding these parameters may damage the device

Electro-Optical Characteristics (TCASE = 25°C)

Parameter		Symbol	Values			Unit
			Min.	Тур.	Max.	Unit
Peak Wavelength		λ_{P}	510	520	535	nm
Spectral Width (FWHM)		$\Delta \lambda$		3.0		nm
Output Power		Po	1.0	1.2		W
Operating Voltage		U _F		5.0	6.0	V
Threshold Current		<i>I</i> th		0.3	0.6	Α
Operating Current		lo		2.1	2.4	Α
Fiber Spec.	Туре		N			
	Core diameter		105*			μm
	Numerical Aperture [N.A.]		0.22			
	Connector		FC/PC*			
	Length			80*		cm
Built-in Photodiode			optional			
Built-in TEC			optional			

 $^{^{\}star}$ FC/APC, SC, SMA905 con., 200 μ m, 400 μ m core diameter, available on request

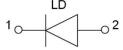
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^{**} Length of fiber customizable



Electrical Connection

Pin Configuration* Pin # Function Pin 1 LD cathode Pin 2 LD anode

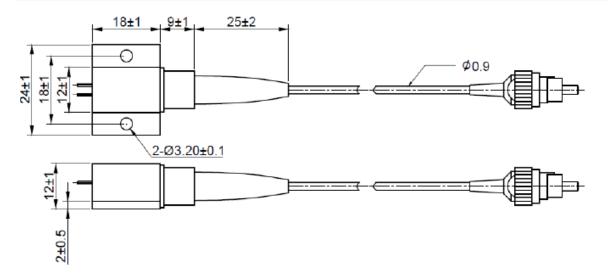




PIN Bottom View



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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^{*} subject to change

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