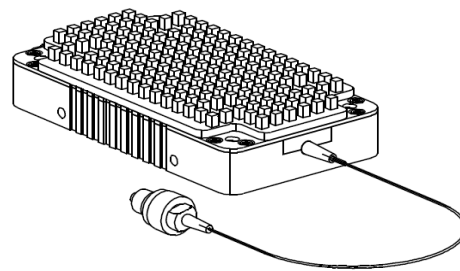


Isolatorless DFB Laser Module

LSM-100-1549/1551-10m-PM-FA-NISO

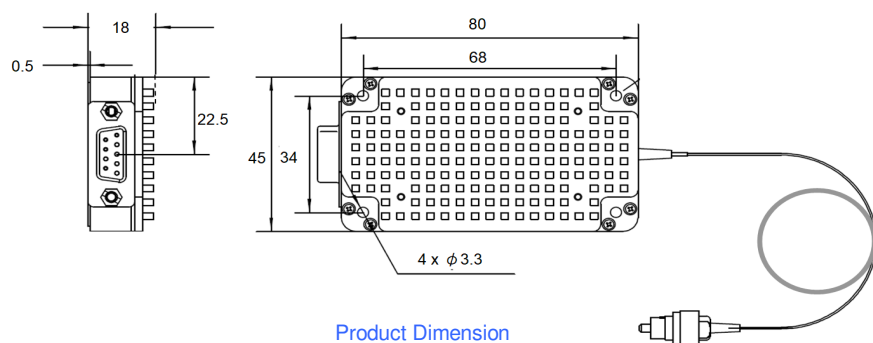
- No Isolator at Output Port
- Wavelength Tunability by Temperature
- Polarization Maintaining Output
- Injection Mode-Locking Application



Illustrative Image

Specifications

Parameter	1549 nm	1551 nm	Unit
Model	LSM-100-1549-10m-PM-FA-NISO	LSM-100-1549-10m-PM-FA-NISO	
Center Wavelength	1549 +/- 0.2	1551 +/- 0.2	nm
Wavelength Tuning Range from center wavelength	Typ. 2.0		nm
Output Power	> 10		mW
Output Power Adjustment Ratio (Wavelength will Shift When tuign the Power by Current)	20 ~ 99		%
Laser Linewidth (Lorentzian Fitting)	Typ. 5.0		MHz
Relative Intensity Noise (RIN) @ >1kHz	< -130		dB/Hz
Side Mode Suppression Ratio (SMSR)	Typ. 45, Min. >40		dB
Polarization Extinction Ratio (PER)	Typ.20, Min. >18		dB
Polarization Axis	Slow Axis aligned to connector key		
Output Isolator	No Isolator		
Output Fiber Type	Panda Fiber, ϕ 900um, 1m in length		
Optical Connector Input/Output	FC/APC		
PC Interface	RS232 level with 9 Pins connector		
Control	Wavelength & Output Optical Power Control By RS232		
Power Supply	DC+5V, 3A		
TEC Setting Temperature (°C) (Change the laser wavelength)	15 ~ 35		°C
Operating Temperature (°C)	10 ~ 40		°C
Storage Temperature (°C)	-20 ~ +65		°C
Physical Dimensions (W x H x D)	45 x 18 x 80 (Exclude Protrusion)		mm



Product Dimension

Pin number	Pin name	Pin function
1	+5V_IN	+5V DC Power
5	Gnd	Ground
2	TX_RS232	Transmit Data
3	RX_RS232	Receive Data
5	RS232 GND	Communication GND
4, 6, 7, 8, 9	N/C	NA

9-Pins Definition

Ordering Information

LSM-100-1549/1551-10m-PM-FA-NISO

