



PLS-100

Polarized Light Source



Product Overview

The PLS-100 is a light source with well defined polarization. It features stable high output power while maintaining a high polarization extinction ratio (PER) of 45 dB (typ.). Combining PLS-100 and PEM-340 (Polarization Extinction Ratio Meter) provides an optimized system for PER measurement of polarization maintaining (PM) fiber optic devices in both R&D and production environments.

Features

- Polarization extinction ratio up to 45 dB (typ.)
- High output power and power stability
- Wavelength range 1310 ± 20 nm or 1550 ± 20 nm

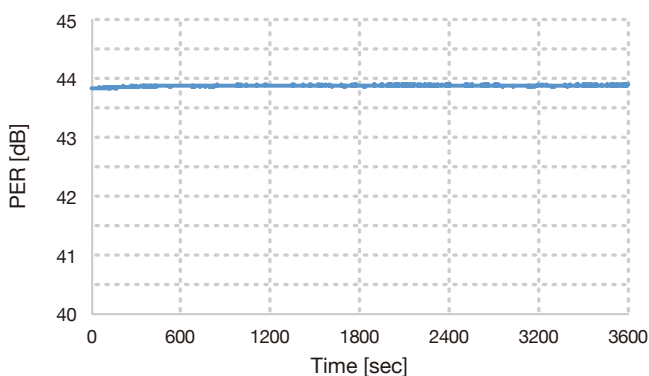


Applications

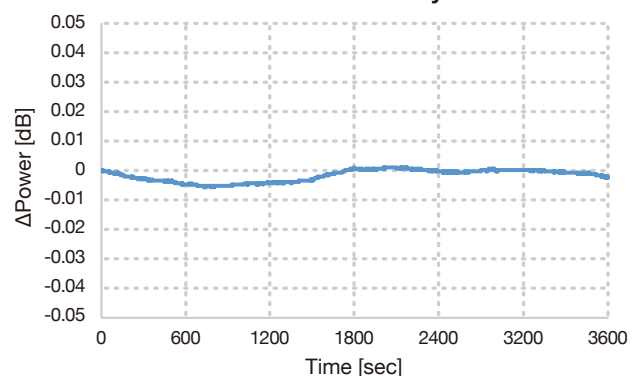
- Alignment of polarization axis for optical devices
- Connectorized PMF patch cord evaluation

Measurement Data

PER stability



Power stability



Specifications

Category	Parameter	Unit	Specification	
Wavelength and Optical Power Characteristics	Wavelength Range	nm	1310 ± 20 or 1550 ± 20	
	Polarization Extinction Ratio (PER)	dB	40 (45 (typ.))	
	PER Stability @ 1hour ^{*1}	dB	±0.5 (±0.1 (typ.))	
	Output Power	dBm	0 (+3 (typ.))	
	Power Stability @ 1hour ^{*1}	dB	< ±0.1 (±0.05 (typ.))	
	Power Variation by changing angle	dB	±0.2	
	Linewidth (FWHM) ^{*2}	nm	> 20	
Interface	Optical Connector	-	FC or SC	
	Connector Polish	-	SPC	
	Polarized Axis Adjustment	Fine adjustment	deg	2
		Coarse adjustment	deg	180
Environmental Conditions and others	Operating Temperature	°C	15 to 35	
	Dimensions (W) x (D) x (H) ^{*3}	mm	210 x 350 x 135	
	Weight	kg	3.5	
	Supply Voltage	V	AC 100 - 240 ± 10 %	
	Frequency	Hz	50 / 60	

* All measurements are taken after 60 min warm up and at stable room temperature.

*1: For period of 1 hour, within ± 0.5 °C.

*2: Measured at Full Width Half Maximum.

*3: Except for the protruding portion.

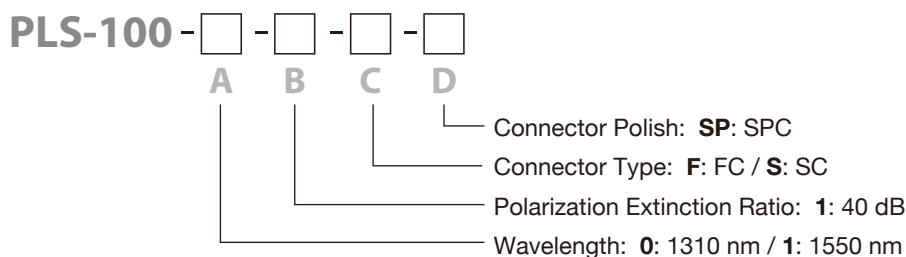
Laser safety information



This product is classified class 1M laser product according to IEC 60825-1 (2014).

This product complies with FDA performance standards for laser products except for deviations pursuant to Laser Notice No. 56 dated May 8, 2019.

Ordering Code



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