O-band DWDM Light Source Unit
LIS-OLS-00-00-U

Features

- O-band DWDM 200GHz
- Up to 8 channels, all-in-one
- Front panel status LED indicators for quick access of unit's status
- Highly reliable and stable
- Narrow-linewidth (<100kHz)
- Build-in isolator and mux
- Maintenance free
- Polarization-maintaining
- RS-232 interface for local supervision.

Applications

- Optical components testing
- Optical measurement system
- Silicon photonics optical measurement

Description

GIP Technology O-band DWDM light source (LIS-OLS-00-00-U) operates in the 1260–1360 nm range. Designed with a focus on high reliability, it integrates advanced laser diodes with thermoelectric cooling and monitor photodiodes to deliver stable output and precise wavelength control. Beyond the telecommunications field, it also plays a key role in silicon photonics testing, offering narrow linewidth and DWDM compatibility for accurate characterization of photonic integrated circuits and optical transceivers.

This O-band LSU can flexibly select wavelengths and the number of channels according to customer requirements. The device also provides a user-friendly status monitoring interface, including an LCD display, LED indicators, and multiple communication interfaces (RS232). Through the RS232 communication interface, users can independently operate different DWDM light source channels.

In summary, the O-band DWDM light source ensures stability, reliability, and versatility, effectively serving silicon photonics R&D as a cost-effective solution.

GIP
Brightening Your Solutions

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Specifications

Optical Information		Unit	Description
Mode of operation			CW
Number of channels			1 ~ 8
Center wavelength (λ_C)[*1, 2]		nm	1290 ~ 1310
Center wavelength range		nm	λ_C±0.2
Spectral linewidth[*3]	Typ.	MHz	1
Side-mode suppression ratio	Min.	Min.	40
Output power[*4], per channel	Min.	mW	10
Output power stability[*5]	Max.	dB	±0.1
Polarization			Linear
Connector type			FC/APC
Electrical Information			
Operating voltage		Volt	100 ~ 240VAC, 50/60Hz
Control mode, per channel			APC
LD chip temperature tuning function			Yes
Control interface			RS-232
Environmental Information			
Operating ambient temperature		°C	0 ~ 40
Storage temperature		°C	-20 ~ 80
Relative humidity (non-condense)		%	5 ~ 85 (operating)
Cooling			Air cooling
Mechanical Information			
Dimension (W x L x H)		mm	434.2 x 336 x 88
User Interface Information			
LED indicator			OK, CH1~CH8
Status supervisory, local			RS232

*1. The customer can specify the O-band DWDM 200G wavelength.

*2. Wavelengths outside the 1290–1310 nm range can also be requested.

*3. Linewidth of <100 kHz can also be requested

*4. Measured at COM_OUT

*5. Measured at 25℃, 1 hour after 30 minutes warm up