Tunable laser light source KLS-201A series(Standard Model)

KLS-201A series are the tunable laser light sources which have a narrow spectrum linewidth and a low relative intensity noise(RIN). This product is the most suitable for the measurement in which high isolation, polarization stability and modulation are neccessary.


KLS-601A

Specifications

Items / Model	1064	1220	O band	ES band	SC band
Tunable W.L. range	1000-1100	1180-1270	1260-1370	1400-1530	1460-1570
Optical output power *1	≥ +3.0dBm				
Wavelength resolution	0.1nm				
Wavelength accuracy	≤ ±0.5nm	≤ ±0.2nm			
Line width (typical) *2	≤ 500kHz	≤ 100kHz	≤ 50kHz		
RIN (typical) *2	≤ -145dB/Hz				
Optical output flatness (typical) *2	**≤ ±0.5dB**	≤ ±0.2dB (APS:ON)			
Optical output stability *3	≤ ±0.05dB (60 minutes)	≤ ±0.03dB (60 minutes)			
Wavelength stability *3	≤ ±1.0pm (60 minutes)	≤ ±0.8pm (60 minutes)			
Optical output attenuation function	Max to -30dB				
Built-in LF modulation function	Available (Coherence control function)				
Beam shutter function	Available				
External control I/F function	GP-IB				
Power supply	100V-240VAC 48-66Hz automatic switch				
Output fiber	Polarization Maintaining fiber (FC/SPC connector *4)				
Polarization states (typical) *2	Linear polarization, key direction of output connector,				
extinction ratio	≥ 20dB				
Size	340W*450D*145H				

Operating environment	Operating temperature limit:10-35 C Range of precision guarantee temperature:15-30 C Percentage humidity:85% or less (non condensing)
Storage temperature range	-10 C – +50 C Percentage humidity:85% or less (non condensing)

* Specifications are subject to change without notice.
*1 Output power can be increased depending on model.
*2 Typical
*3 The conditions of environmental temperature stability.

Features

■Wide dynamic range

KLS-201A series guarantee an accurate measurement of optical devices with its extraordinary wide dynamic range.

■Low noise

KLS-201A sereis is best suitable for noise figure (NF) measurement of the optical fiber amplifier: EDFA, etc. The excellent RIN (Relative Intensity Noise) characteristics ensures accurate measurement without affecting the characteristics of measuring object.

■Narrow spectrum linewidth
Spectrum linewidth indicates the distribution of wavelength, and the narrower the spectrum line-width, the higher the wavelength isolation. Variation of the oscillation frequency affects the optical spectrum linewidth.

* As for our tunable laser light source, a band pass filter is used in an optical wavelength variable mechanism, and it has capabilities of creating a high-level narrow optical spectrum linewidth with excellent monochromatic and the high stability level over a short period of time.

Applications

■Mearsurement of the optical components and equipments

Our tunable laser has GP-IB, and it measures coordination between PC and Power Meter.