Compact Photonic Tools
LED Source (cLED-A1)

Key Features

- Provides two key datacom wavelengths (850 and 1300 nm)
- Combines two LEDs on a single output
- Includes adjustable output power
- Offers selectable continuous-wave or modulated output power

Applications

- Serves as a basic light source for laboratory use
- Performs insertion loss testing of passive optical components
- Performs insertion loss testing of optical connectors and cables
- Provides light sources for automated alignment stations

The JDSU Compact Photonic Tools offer a new portfolio of point solutions for fiber optic test applications.

The cLED-A1 provides a compact, intuitive light emitting diode (LED) source designed to enable applications ranging from simple continuity verification and insertion loss testing to integration into process-automation equipment designed for alignment.

The integrated multiplexer and single optical output found in the cLED greatly simplifies the optical connections and calibrations. To compensate for downstram wavelength-dependent loss, each wavelength can be individually controlled and attenuated up to 7 dB with 0.01 dB resolution.

A simple, intuitive graphical user interface (GUI) and keypad minimizes training requirements. A universal serial bus (USB) interface may be used for test automation interfacing to a PC.

Innovative Features Reduce Test Duration by 2x When Paired with a cOPM-A1

TWIN Test

Enabling TWIN test features on the cLED dramatically reduces test durations by allowing the simultaneous measurement of two wavelengths. Accessing this feature requires pairing of a cOPM-A1 with the cLED-A1. When this feature is enabled on both units, the cOPM-A1 will automatically detect the wavelengths present and display the simultaneously measured output power (or loss) for each.

Specifications

Parameter	cLED-A1
Peak wavelength	850, 1300 nm
Center wavelength accuracy	±20 nm
Fiber type	50 μm MMF
Spectral width	<20 nm
Maximum output power	-23 dBm
Attenuation range	7 dB
Attenuation resolution	0.01 dB
Modulation	CW, 270 Hz, 1 kHz, 2 kHz
Stability	±0.02 dB (15 min.)±0.2 dB (8 hrs.)
Connector type	Interchangeable adapters (SC, FC, LC, ST, DIN)
Recalibration period	1 year
Warm-up time	5 min.
Operating temperature	-10 to 55℃
Humidity	Non-condensing
Dimensions (W x H x D)	250 x 88 x 210 mm (9.84 x 3.46 x 8.27 in.)
Weight	1.8 kg (4 lbs)
Remote interface	USB (through virtual COM port driver)
Powering options	Auto sensing
Mains	100 to 240 V AC, 50 to 60 Hz
USB	Direct from USB, no main required
Power consumption[1]	1.1 W

1.   When connected to the AC power plug.

Ordering Information

Product Code	Description
BN 2299/46	Dual Wavelength LED Source, 850, 1300 nm

Comes with universal adapters from BN 215x/00.xx range.

Test & Measurement Regional Sales