

Low DOP Broadband ASE Source

DS-BP1-SCL30

APPLICATIONS

- Optical test Instrument
- Fiber Optic Sensors
- Optical Coherence Tomography
- Biomedical Imaging Device
- Clinical Healing Equipment

FEATURES

- Ultra broadband source covering 1460 to 1620nm
- Spectral power density >-32dBm/0.1nm
- Spectral flatness <4dB
- Highly stable power output
- Built-in current driver and temperature controller
- Output power selectable via USB control interface
- External digital modulation input (rise/fall time <0.1msec)

DS-BP1-SCL30 is a Broadband source, covering S-C-L Band (spanning 160nm), with a minimum power density of -32dBm/0.1nm. It comes with USB control interface and optional integrated optical circulator.

This SLED Source consists of a DenseLight standard SLED source, a temperature controller and a built-in current driver capable for CW driving. External digital modulation is possible via the SMA socket.

ELECTRICAL AND OPTICAL CHARACTERISTICS (AFTER 1 HOUR WARM-UP)

Parameter	Symbol	MIN	TYP	MAX	Unit
Power Output	P_O	2.0	-	-	dBm
Operating Wavelength	λ	1460	-	1620	nm
Spectral Power Density	P_{density}	-32	-30	-	dBm/0.1nm
Spectral Flatness	SF	-	3	4	dB
Optical Isolation	ISO	40	-	-	dB
Output stability (1hr) (after 1hr warm-up)	Stb	-	-	± 0.05	dB

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Ratings	Unit
Operating temperature (chassis)	T_{op}	0 ~ +60	°C
Storage temperature	T_{stg}	-40 ~ +85	°C
Input voltage	V_s	< 5.75	V

PACKAGE

- Dimension: L100 x W90 x H30mm
- Enclosure: Metal Case
- Cooling: Air-Cooled
- Optical Output: FC/APC receptacle
- Electronic Interface: 4-pin terminal block
- Control interface: USB Mini-B receptacle
- External Modulation: SMA Socket

