# Exceed Broadband Light Source

## Description

Exceed broadband light source, combined by several SLED diode modules, covers wavelength range from 750nm to 1750nm, and bandwidth can be up to 500nm. Standard DOP or lower DOP can be selected in accordance with different application needs.

## Features

- Density spectrum >-20dBm/nm
- Excellent spectral stability
- Low spectral ripple

## Application

- Optical fiber passive devices test
- Optical fiber sensing systems
- Research and laboratory application

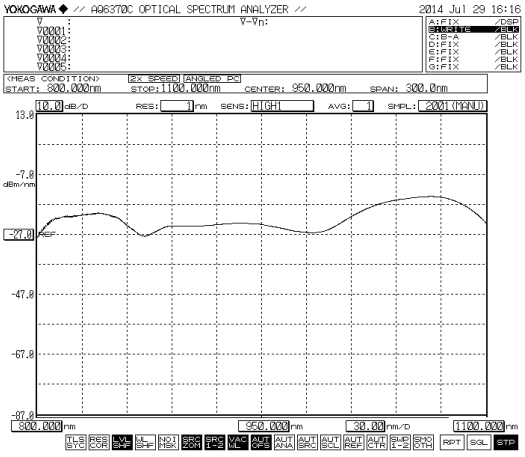
## Specification

| Parameters | Units | Reference Information | |
|---|---|---|---|
| Polarization characteristic | - | Random | Low |
| Degree of polarization | - | - | <10% |
| Spectral density stability①② | dB | - | ≤ 0.05 (4 hours) |
| Operating wavelength | nm | 800~1100、1250 ~1650、1220~1700 | |
| Spectral density①② | dBm/nm | -30、-25 or -20 | |
| Ripple① | dB | Typical 0.3 | |
| Short-term stability② | dB | ≤ 0.01 (15 minutes) | |
| Long-term stability② | dB | ≤ 0.08 (8 hours) | |
| Fiber type | - | SMF | |
| Connector | - | FC/UPC、FC/APC、SC/APC or SC/UPC | |
| Operating temperature | ℃ | 0~+50 | |
| Storage temperature | ℃ | -20~+70 | |
| Relative humidity | - | <95% (Non-condensation) | |
| Power supply | - | AC 90~250V, 50~60Hz, 20W | |
| Dimensions (L×W×H) | mm | 360×300×110 | |

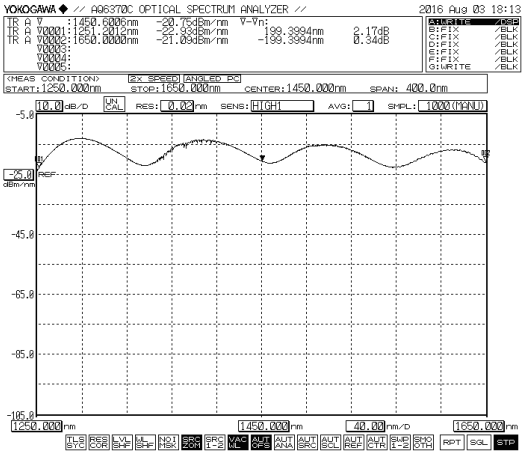
Note: ① The wavelength resolution is 0.1 nm, except for the water absorption peak near 1390 nm

② The test conditions are room temperature (25℃) and relative humidity change range of 5%

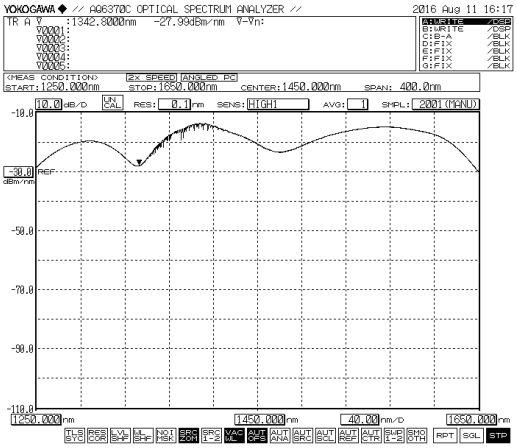
## Typical Spectrum



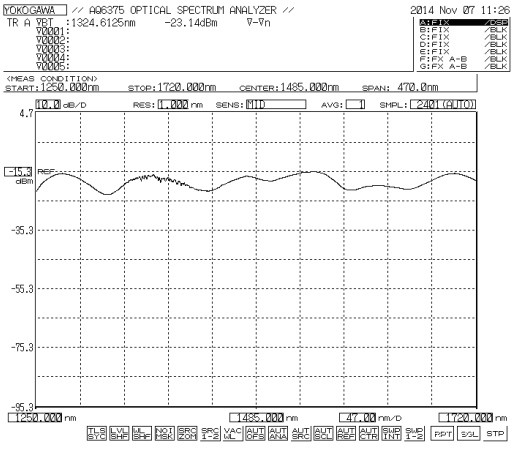
800-1100nm



1250-1650nm (>-25dBm/nm )



1250-1650nm (>-30dBm/nm )



1250-1720nm

## Order Information

| OS-EB-1-2-3-4-5-6-7 | | | | | |
|---|---|---|---|---|---|
| 1 | Polarization | S=Random | L=Low | - | - |
| 2 | Package | D=Desktop | - | - | - |
| 3 | Central wavelength | 950=950nm | 1450=1450nm | XXXX=XXXXnm | - |
| 4 | Bandwidth | 300=300nm | 400=400nm | XXX=XXXnm | - |
| 5 | Spectral density | 30=-30dBm/nm | 25=-25dBm/nm | 20=-20dBm/nm | - |
| 6 | Fiber type | S=SMF | - | - | - |
| 7 | Connector | FA=FC/APC | FU=FC/UPC | SA=SC/APC | SU=SC/UPC |