



# 上海量青光电技术有限公司

## 1390nm ASE 宽带光源 Broadband Light Source



### Description:

1390nm/1380nm ASE Broadband Light Source, based on Amplified Spontaneous Emission (ASE) laser diode (LD). Center wavelength 1390nm or 1380nm, operating wavelength range 1350 to 1430 nm, 1305 to 1455 nm, etc. Output power 5-10 mW, etc. Spectral density -20~-10dBm/nm, Degree of Polarization (DOP)  $\leq 5\%$ . OEM model is well available on customer's special request.

### Applications:

Optical fiber sensing  
WDM, Film testing  
Optical fiber measurement equipments  
Fiber Optic Gyroscope (**FOG**)  
Optical coherence tomography (**OCT**)

### Features:

High output power  
High spectral stability  
Broadband spectrum output  
Low noise  
Low polarization and low coherent

| Parameters                        | Unit               |   |
|-----------------------------------|--------------------|---|
| Part No.                          | -                  | LQ-ASE-1390-P-PW-SP                         |
| Operating wavelength              | nm                 | 1350~1430                                   |
| Power spectral density            | dBm/nm             | $\geq -10 \sim 20$                          |
| Output power                      | mW                 | 5-10, etc                                   |
| Spectral stability                | dB                 | $\leq \pm 0.05 \text{ dB} / 5 \text{ min}$  |
| Output power short-term stability | dB                 | $\leq \pm 0.02 \text{ dB} / 15 \text{ min}$ |
| Output power long-term stability  | dB                 | $\leq \pm 0.03 \text{ dB} / 8 \text{ hour}$ |
| Degree of Polarization            | DOP                | $\leq 5\%$                                  |
| Operating mode                    | -                  | CW  |
| Fiber pigtail                     | -                  | Single mode SMF-28                          |
| Output connector                  | -                  | FC/UPC or FC/APC, etc                       |
| Operating temperature             | $^{\circ}\text{C}$ | 0 ~ 65                                      |
| Storage temperature               | $^{\circ}\text{C}$ | -20 ~ 70                                    |
| Maximal Power Consumption         | W                  | 10  |
| Relative humidity                 | %                  | 20~80                                       |

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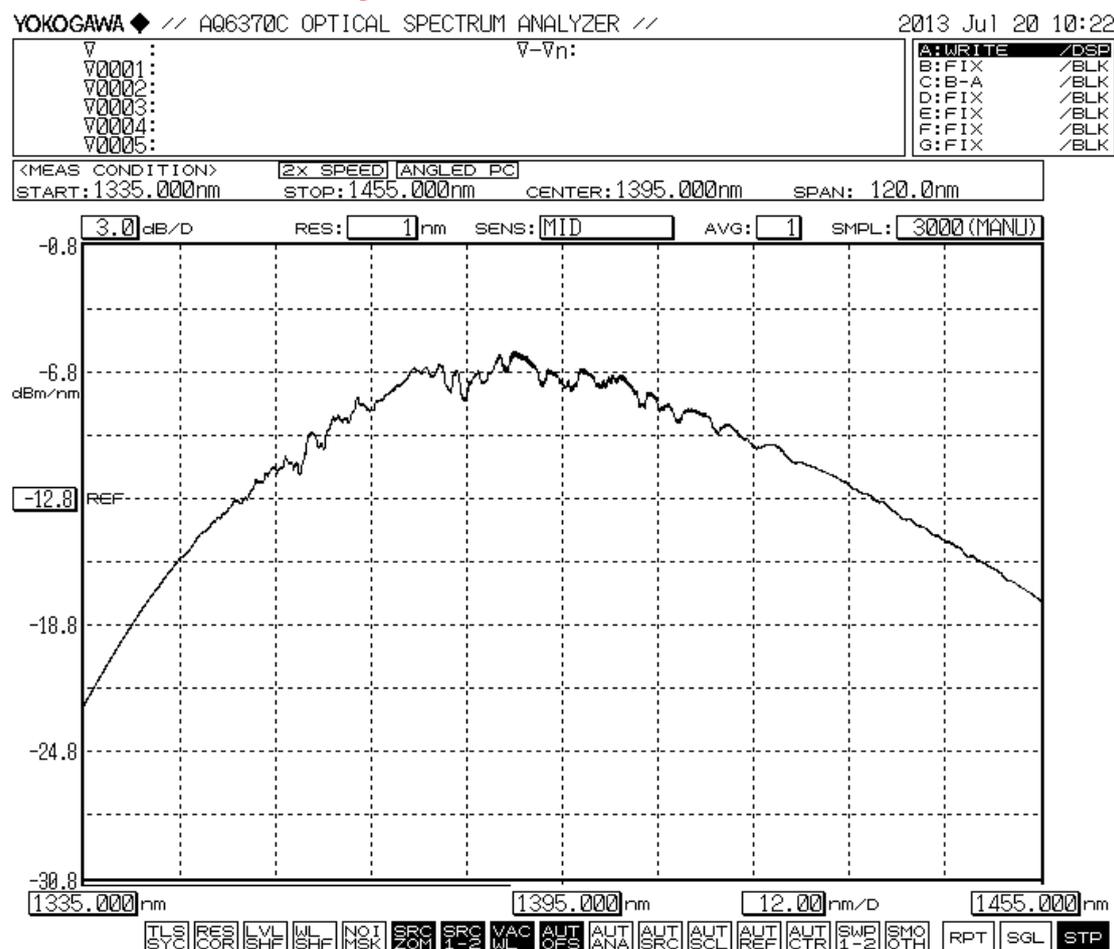


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|                    |    |  |
|--------------------|----|--|
| Power supply       | -  | +5V DC; >500mA; $\Delta V < 1\%$ (Module); AC 110/220V $\pm 10\%$ , 50Hz, 20W (Desk-top) |
| Dimensions (L×W×H) | mm | 90×70×19 Module; 320×220×90 Benchtop   |

Remark: Stability is tested at room temperature  $25 \pm 2^\circ\text{C}$  after pre-heating 30 minutes.

1. Test condition: fixed temperature, CW.
2. Test condition: temperature variation  $\pm 2^\circ\text{C}$ , CW.



## Order Information:

LQ-ASE-1390-P-PW-SP

P:Package, B-Benchtop, M-Module

PW: Output power in mW, example:1-1mW ,7-7mW, 10-10mW,30-30mW

SP: Feedback protection, 0-None, 1-Yes

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