

## 1550nm C-band ASE Modular with Broadband Light Source of 30mW (Gaussian Spectrum)



### ● Product Description

C- band ASE broadband light source (Gaussian spectrum) is a special light source developed for fiber optic gyroscope applications. The operating wavelength is in the 1550nm wavelength range, and the spectrum is close to the Gaussian shape. Through spectrum control and temperature compensation, better wavelength stability and power stability are achieved, which is very suitable for applications such as fiber optic gyroscopes.

## ● Product features

Gaussian spectrum 、 Wide temperature range 、 Wider spectral range

## ● Part Number

MP-ASE-1550-15-10-SA

## ● Application area

Fiber Optic Gyroscope 、 Fiber Optic Sensing 、 Production Test

## ● Core parameters

| Center wavelength | Spectral Range | Output Optical Power |
|-------------------|----------------|----------------------|
| 1550±5nm          | 10nm           | 30mW                 |

## ● General Parameters

| Optical Indicators   | Unit | Typical Value | Remark      |
|----------------------|------|---------------|-------------|
| Spectral Shape       | -    | Gaussian      |             |
| Central Wavelength   | nm   | 1550±5        |             |
| Spectral Range       | nm   | 10            | 3dB Width   |
| Output Optical Power | mW   | 10/20/30      | Fixed power |

|                                                 |            |                |                    |
|-------------------------------------------------|------------|----------------|--------------------|
| <b>Spectral Ripple</b>                          | <b>dB</b>  | <b>≤0.2</b>    |                    |
| <b>Stability Over Temperature</b>               | <b>-</b>   | <b>≤10%</b>    | <b>-40~70°C</b>    |
| <b>stability Over Temperature</b>               | <b>ppm</b> | <b>≤200</b>    | <b>-40~70°C</b>    |
| <b>Wavelength Stability at Room Temperature</b> | <b>ppm</b> | <b>≤5</b>      | <b>30min, 25°C</b> |
| <b>OUTPUT ISOLATION</b>                         | <b>dB</b>  | <b>&gt;35</b>  |                    |
| <b>Polarization Degree PER</b>                  | <b>dB</b>  | <b>≤ 0.2</b>   |                    |
| <b>Pigtail and Connector Types</b>              | <b>-</b>   | <b>SMF- 28</b> | <b>FC/APC</b>      |

| <b>Electrical and Environmental Parameters</b> | <b>Typical Value</b>                                                         |
|------------------------------------------------|------------------------------------------------------------------------------|
| <b>Control Method</b>                          | <b>RS232 serial communication</b>                                            |
| <b>Communication Interface</b>                 | <b>DB9 Female</b>                                                            |
| <b>Operating Voltage</b>                       | <b>5V DC, &lt;15W</b>                                                        |
| <b>Power Consumption</b>                       | <b>≤3W (when working at normal temperature);<br/>≤5W (at startup moment)</b> |
| <b>Size</b>                                    | <b>Φ84(D)×26(H)mm</b>                                                        |
| <b>Operating Temperature Range</b>             | <b>-40~+70°C</b>                                                             |
| <b>Storage Temperature Range</b>               | <b>-50~+80°C</b>                                                             |
| <b>Operating Humidity Range</b>                | <b>0~70%</b>                                                                 |

| Ordering Information/PN# |                |                        |                        |            |
|--------------------------|----------------|------------------------|------------------------|------------|
| ASE                      | Spectral range | Output power<br>( mW ) | Output pigtail<br>type | Package    |
|                          | C- GS          | 10/20/30               | SM= SMF- 28            | M = Module |

### 1550nm band ASE broadband light source (Gaussian type)

