

# 0701 Bare FBG

W8205-S



## 1561 nm/1562.5 nm/1564 nm FBG, Acrylate Coating, FCA-FCA

FBG(Fiber Bragg Grating) array is a series of Bragg grating written on a single optical fiber. It can meet the requirements for long monitoring and multi-points monitoring. It can improve stability and reliability, as well as simplify the system.

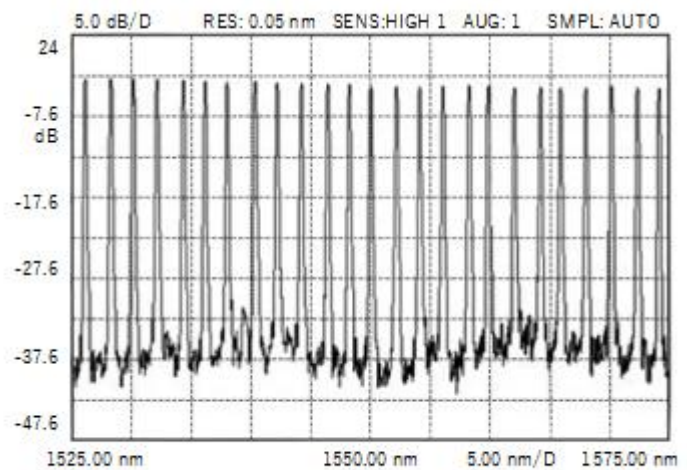
### FEATURES

- No Splicing Point
- Customer Defined Grating Characteristics and Spacing
- High Stability and Reliability
- Long Fiber Distance

### USE IN

- Distributed Sensing Measurement
- Wavelength Reference
- Aerospace Engineering
- Load Monitoring for Power Transmission

### Spectrum



Reflective Spectrum for FBG Array

|                      |                            |                |                |                |
|----------------------|----------------------------|----------------|----------------|----------------|
| Center Wavelength    | 1561 nm/1562.5 nm/1564 nm  |                |                |                |
| Wavelength Tolerance | ±0.5 nm                    |                |                |                |
| FBG Length           | 3 mm                       | 5 mm           | 10 mm          | 15 mm          |
| Reflectivity         | 70% min.                   | 75% min.       | 90% min.       | 90% min.       |
| Bandwidth at -3 dB   | 0.7 nm<br>max.             | 0.7 nm<br>max. | 0.3 nm<br>max. | 0.3 nm<br>max. |
| SLSR                 | 15 dB min.                 |                |                |                |
| Spacing              | 10 mm min.                 |                |                |                |
| Spacing Accuracy     | 1 mm max.                  |                |                |                |
| Proof Test           | 100 Kpsi min.              |                |                |                |
| Fiber Type           | SMF-28e or Polyimide Fiber |                |                |                |
| Fiber Termination    | FCA-FCA                    |                |                |                |
| Storage Temperature  | -40°C to +120°C            |                |                |                |

**Order notes to our customers:** The default parameters are as follows. For special needs, please contact sales.

**1) Connector FC/APC, 900 um, 1 m by default for all devices except for high power devices.**

**2) Slow axis working, fast axis blocked, connector key is aligned to slow axis by default for PM devices.**