

Fiber Bragg Grating String for Sensing

Description

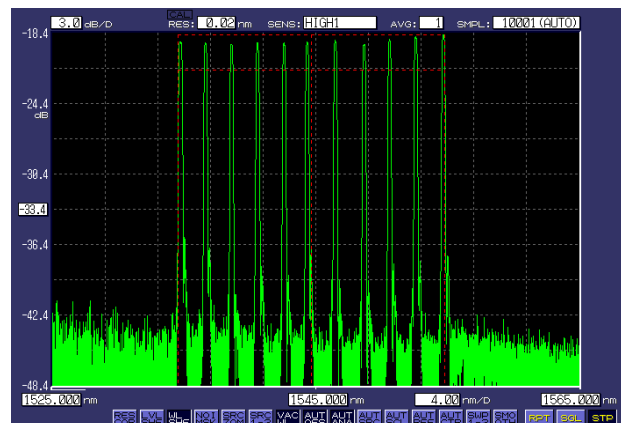
Multiple standard gratings are continuously written on a single fiber to meet the needs of long-distance measurement or multi-point measurement, and improve the reliability and stability of the measurement system. T&S customizes various grating strings according to the needs of customers.

Features

- No need for splicing
- Accurate position
- Reliable and stable

Applications

- Distributed sensing measurement
- Wavelength reference



Specification

| Item | Unit | Specification | | | |
|-----------------------------|------|--------------------------------------------------------------------|------|------|------|
| Central Wavelength | nm | 1510~1590 | | | |
| Wavelength Tolerance | nm | ±0.5 | | | |
| Grating Length | mm | 3 | 5 | 10 | 15 |
| Reflectivity | -- | ≥70% | ≥75% | ≥90% | ≥90% |
| 3dB Band Width | nm | ≤0.7 | ≤0.7 | ≤0.3 | ≤0.3 |
| Side Mode Suppression Ratio | dB | ≥15 | | | |
| Minimum Spacing | mm | 5 | | | |
| Recoating | -- | Acrylate / Polyimide | | | |
| Test Proof | Kpsi | ≥100 | | | |
| Fiber Type | -- | SMF-28e / Polyimide coated optical fiber | | | |
| Connector Type | -- | FC/APC or Customized | | | |
| Pigtail Length | m | Customized | | | |
| Operating Temperature | °C | SMF-28e Fiber: -20~120; Polyimide coated optical fiber: -40~300 | | | |