

Fiber Bragg Grating String for Sensing

Description

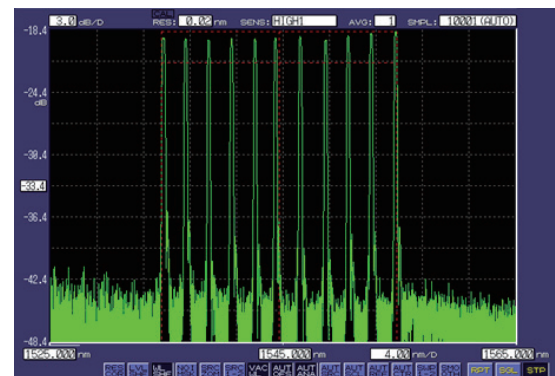
Multiple standard gratings are continuously written on a single fiber to meet the needs of long-distance measurement or multi-point measurement, and improve the reliability and stability of the measurement system. T&S customizes various grating strings according to the needs of customers.

Features

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

Application

- 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 others			
Pigtail Length	m	Customized			
Operating Temperature	°C	SMF-28e fiber: -20 to 120; Polyimide coated optical fiber: -40 to 300			