

Fiber Bragg Grating Array for Sensing

Description

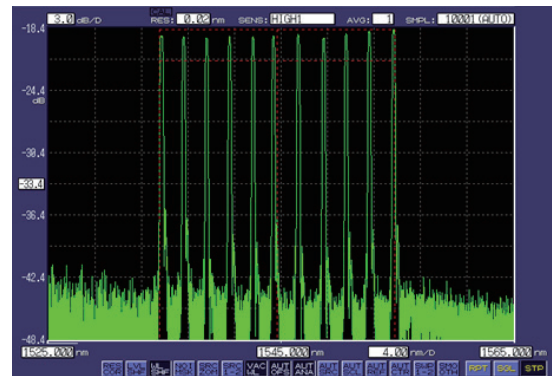
Multiple standard gratings are continuously written on a single fiber to meet the needs of long-distance measurement or multi-point measurement, and improve the reliability and stability of the measurement system. T&S customizes various grating strings according to the needs of customers.

Features

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

Application

- Distributed sensing measurement
- Wavelength reference



Specification

Item	Unit	Specification				
Central Wavelength	nm	1510 to 1590				
Wavelength Tolerance	nm	±0.3			±0.5	
Grating Length	mm	3	5	10	≤15	≤15
Stripping Length	mm	≤10	≤10	≤20	≤20	≤20
Reflectivity	-	≥70%	≥75%	≥90%	≥95%	≥99%
-3dB Band Width	nm	≤0.7	≤0.7	≤0.3	≤0.3	≤0.5
SLSM	dB	≥15			≥10	
Minimum Spacing	mm	5				
Recoating	-	Acrylate / Polyimide				
Tensile Resistance	Kpsi	≥100				
Fiber Type	-	SMF-28e / Polyimide coated optical fiber				
Connector Type	-	FC/APC or Customized				
Operating Temperature	°C	SMF-28e Fiber: -20~120; Polyimide coated optical fiber: -40~300				