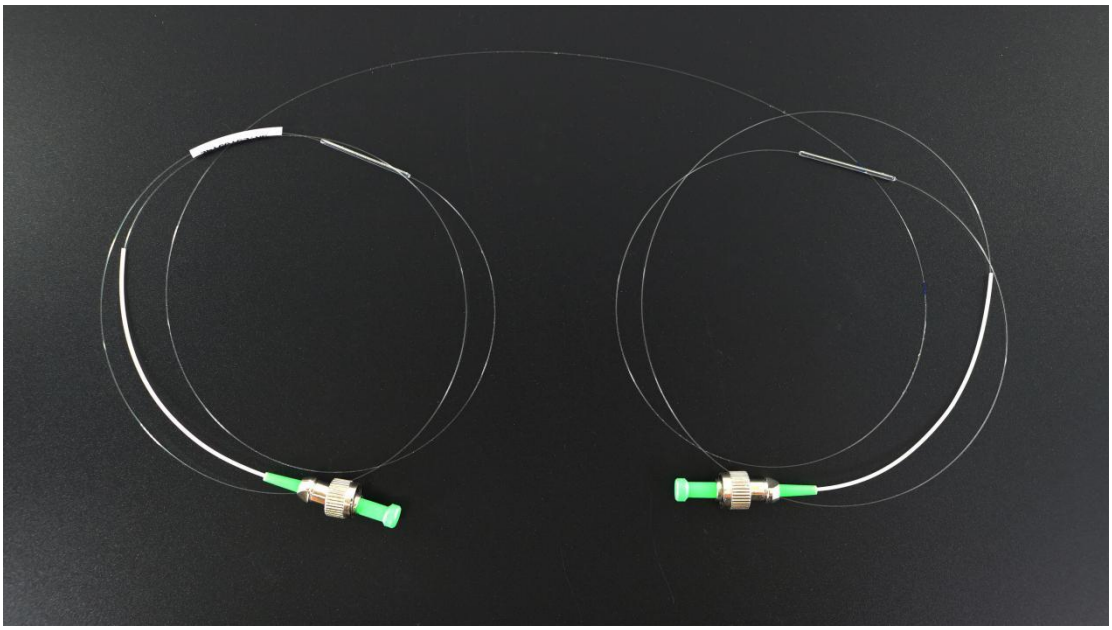
Tilted Fiber Bragg Grating



Product Description

Tilted fiber Bragg grating is an advanced passive fiber optic device, whose internal refractive index modulation grating plane forms a specific angle (tilt angle) with the fiber axis. TFBG continuously couples the fundamental mode energy transmitted in the core to a series of different order cladding modes through its tilted refractive index modulation structure, while satisfying the phase matching condition.

Product features

Multi mode coupling effect, high refractive index sensitivity, multi parameter synchronous measurement

Part Number

MP-TFBG-1-12

Application area

Biochemical sensing、 Environmental monitoring、 Medical diagnosis、 Industry and energy 、 Communication and optical devices

Core parameters

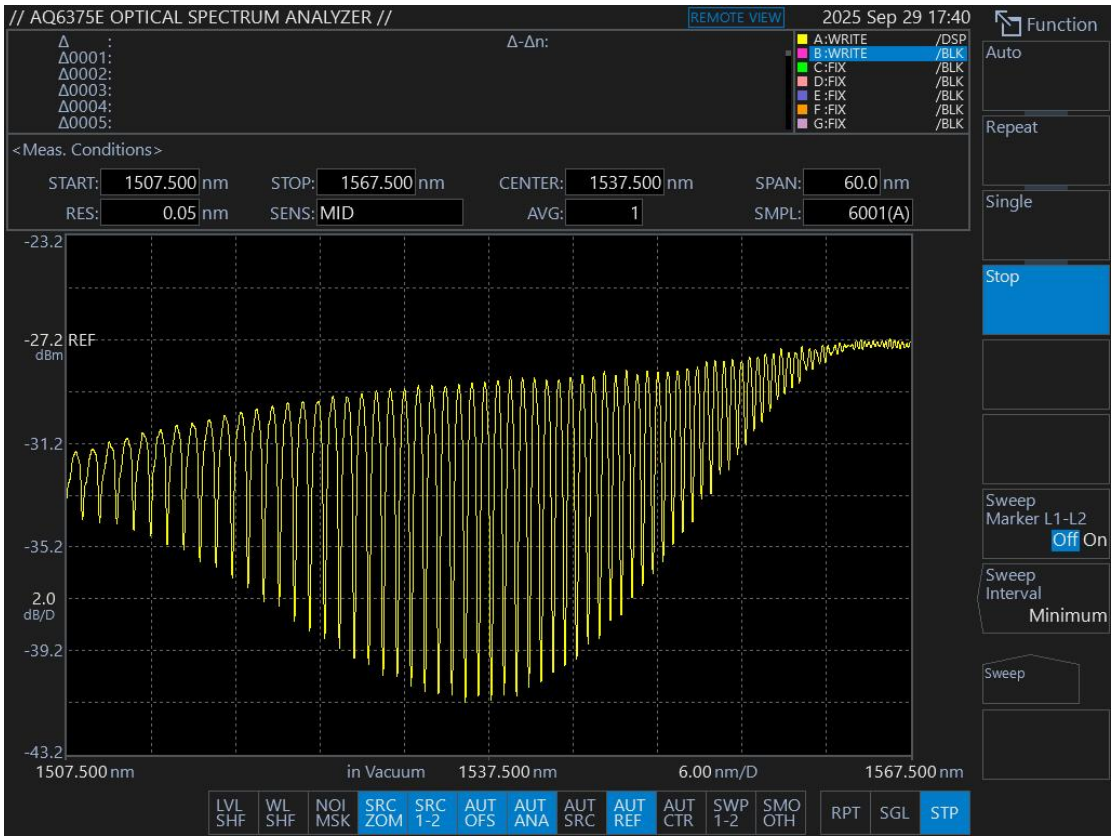
Core Mode Central Wavelength	Tilt Angle
1520–1600 nm	1°~12°

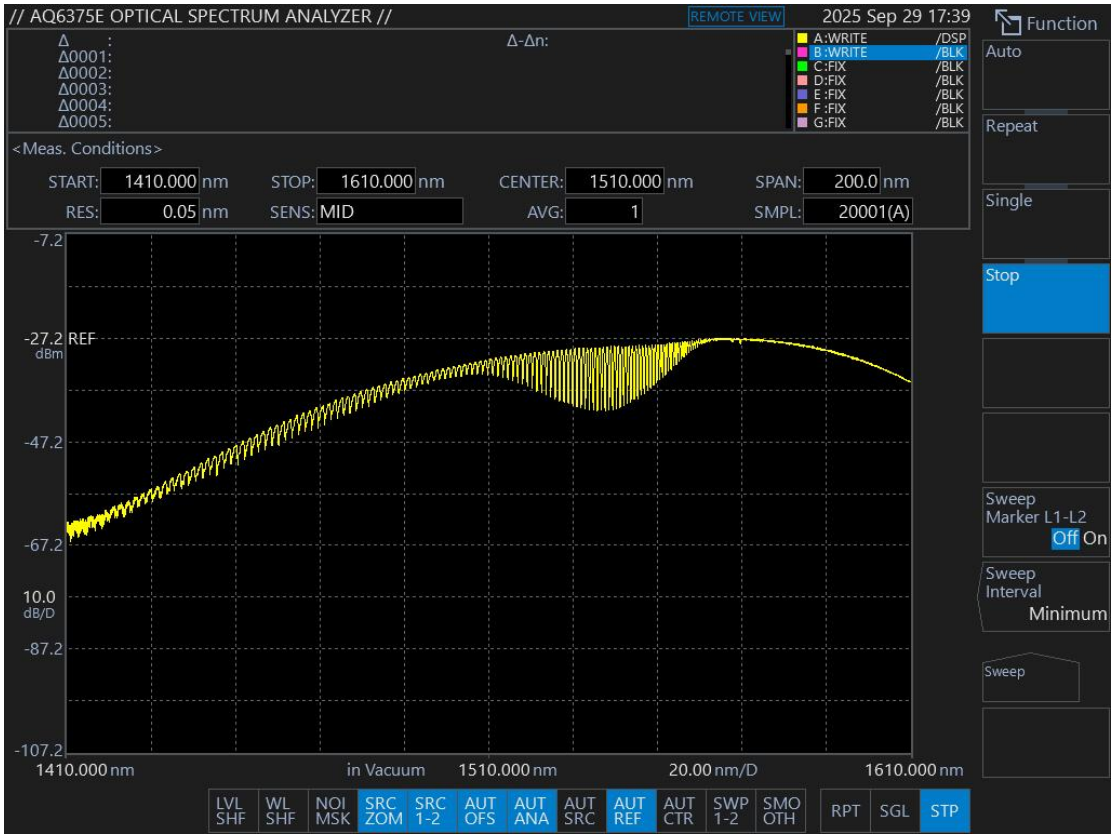
General Parameters

Parameters

Parameter Type	Unit	Value
Core Mode Central Wavelength	nm	1520–1600 (interval 1)
Cladding Mode Central Wavelength	nm	1470–1550 (interval 1)
Tilt Angle	°	1–12
Cladding Mode Transmission Depth	dB	0.1–30
Grating Length	mm	1–15
Pigtail Length	cm	>20 / >20

Parameter Type	Unit	Value
Fiber Type	—	Single-mode fiber
Connector Type	—	Bare fiber / SC / FC / LC, etc.




// AQ6375E OPTICAL SPECTRUM ANALYZER //
REMOTE VIEW
2025 Sep 29 17:39
Δ :
Δ0001:
Δ0002:
Δ0003:
Δ0004:
Δ0005:
Δ-Δn:
A:WRITE /DSP
B:WRITE /BLK
C:FIX /BLK
D:FIX /BLK
E:FIX /BLK
F:FIX /BLK
G:FIX /BLK
<Meas. Conditions>
START: 1410.000 nm
STOP: 1610.000 nm
CENTER: 1510.000 nm
SPAN: 200.0 nm
RES: 0.05 nm
SENS: MID
AVG: 1
SMPL: 20001(A)
-7.2
-27.2 dBm
REF
-47.2
-67.2
10.0 dB/D
-87.2
-107.2
1410.000 nm
in Vacuum
1510.000 nm
20.00 nm/D
1610.000 nm
LVL SHF
WL SHF
NOI MSK
SRC ZOM
SRC 1-2
AUT OFS
AUT ANA
AUT SRC
AUT REF
AUT CTR
SWP 1-2
SMO OTH
RPT
SGL
STP
Function
Auto
Repeat
Single
Stop
Sweep Marker L1-L2
Off On
Sweep Interval
Minimum
Sweep