



• Product Description

IDEAL The Power of Light PHOTONICS

High-speed tunable bandpass filter. As a two-port optical module, the input port receives broadband multi-wavelength light and only a small portion of the incident signal within the passband is allowed to pass through the filter and directed to the output port. The center wavelength of the selected band can be tuned to anywhere within the operating wavelength range. In our design flexibility, transmission bandwidth, wavelength tuning range can be customized. The voltage-controlled filter requires no moving parts, has fast tuning speed, and is compact and small in size. Our filters are used as suppression filters in optical systems to improve laser signal-to-noise ratio in wavelength scanning engines of optical spectrum analyzers (OSAs) and in system diagnostic communication systems.





TOF-1064-500-60-SA

Product features

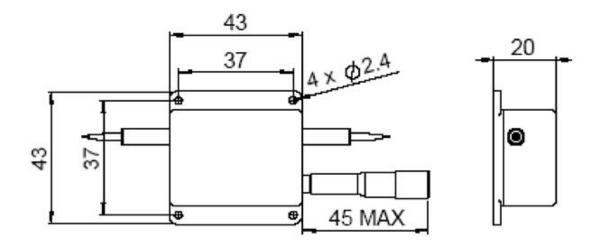
High-speed wavelength tuning 、 Wide operating wavelength range 、 Flat-top/Gaussian filter shapes 、 No moving parts 、 Over 1 billion cycles

• Application area

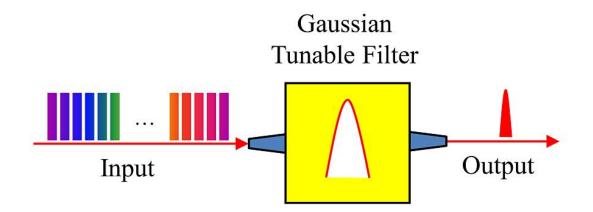
Optical spectrum analyzer engine、 ASE noise suppression、 Optical channel diagnostics、 Test and measurement instruments、 Channel selection for wavelength lockers

Parameters

Dimensional Drawing







Technical parameters:

Parameters	Min	Typical	Max	Unit
Center wavelength	-	1060, 1310, 1550, 2000	-	nm
Tuning range[1]	-	60	80	nm
Tuning resolution	-	0.1	-	nm
Insertion loss[2]	2	3	4	dB
Bandwidth @-3dB	-	1	1.2	nm
Bandwidth @-20dB	-	10	-	nm
Sideband suppression	-	30	-	dB
PDL (SM fiber only)	-	0.15	0.35	dB
PMD (SM fiber only)	-	-	0.5	ps
Extinction ratio (PM fiber only)	18	23	-	dB
Return loss	40	-	-	dB
Operating power (CW)[3]	-	0.5	15**	W
Operating temperature	0	20	60	°C
Storage temperature	-10	-	70	°C
Dimensions	-	43 L x 43 W x 20 H	-	mm

[1]. Longer wavelength and larger tuning range.

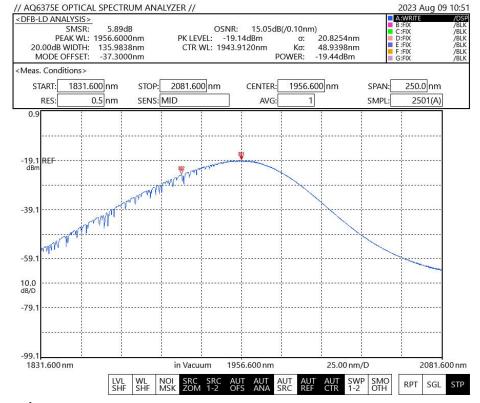
[2]. Small core fiber has greater loss. Loss data tested with broadband light source without connector.

[3]. Supports customized service of high operating power up to 15W.

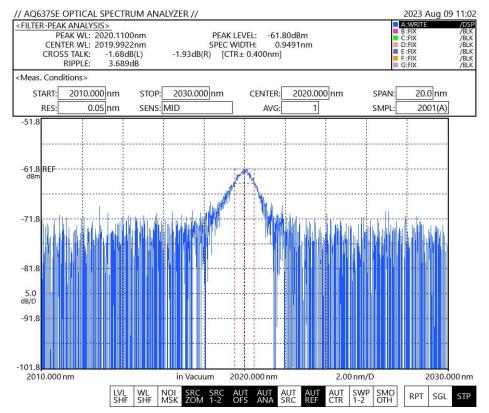




Test light source spectrum

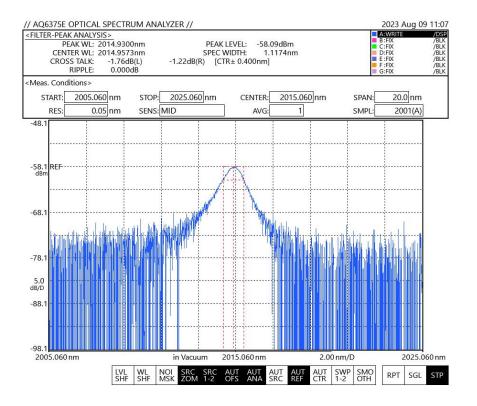


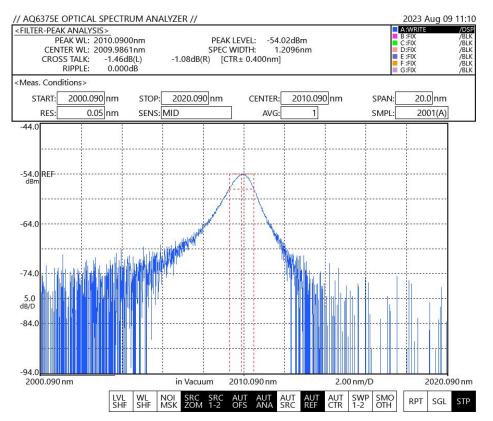
Measured spectrum





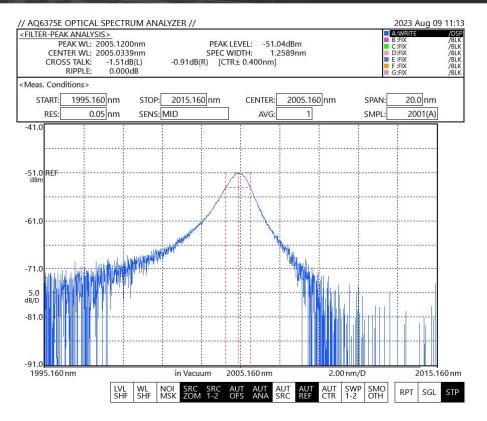


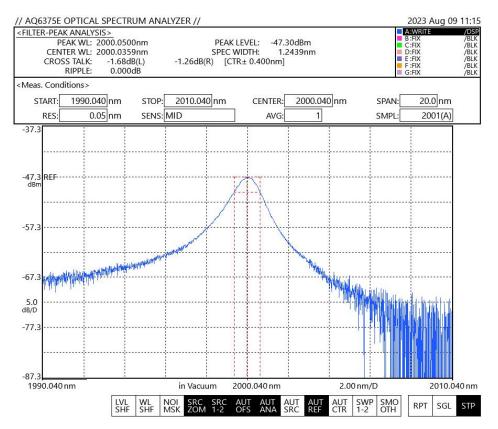






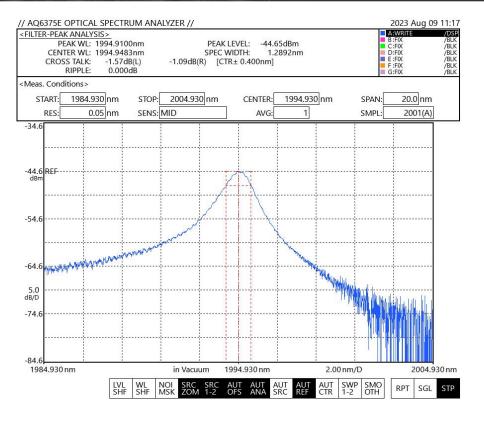


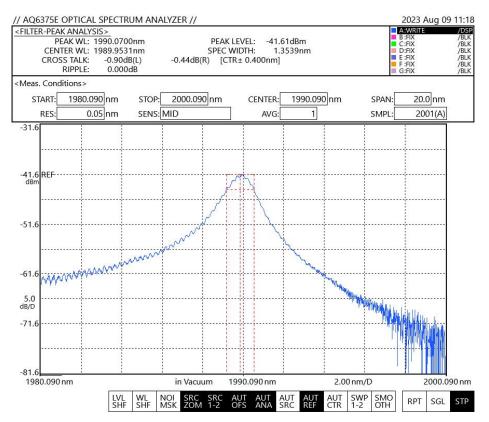






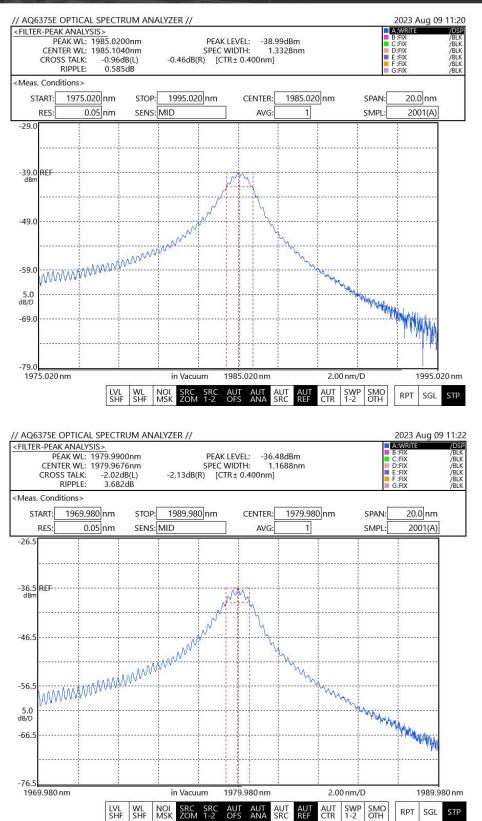




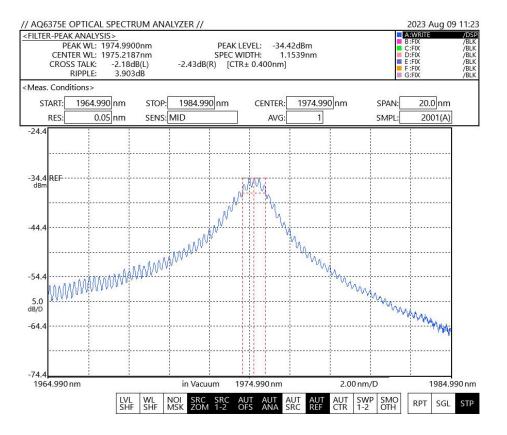


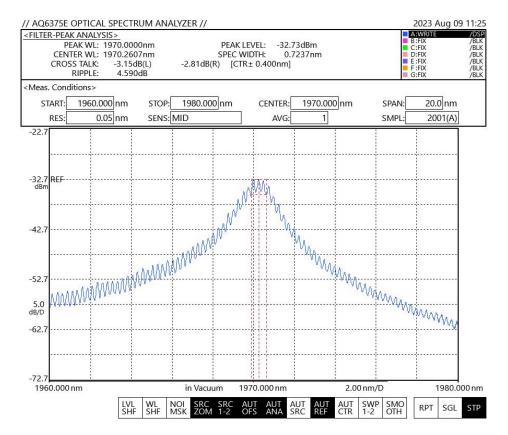






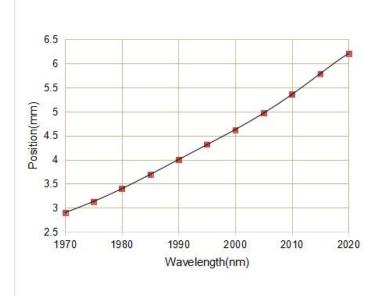








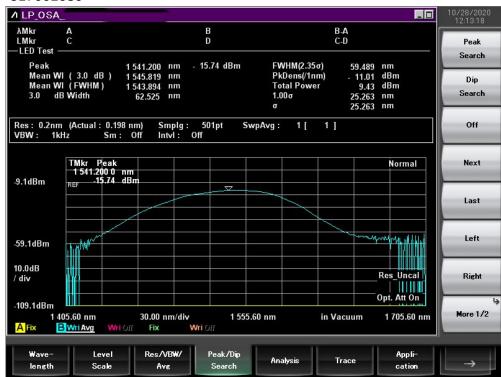
The relation between entral wavelength and rotary knob position



Test light source:

PN: PL-SLD-1550-A-A81-SA

SN: S17062686

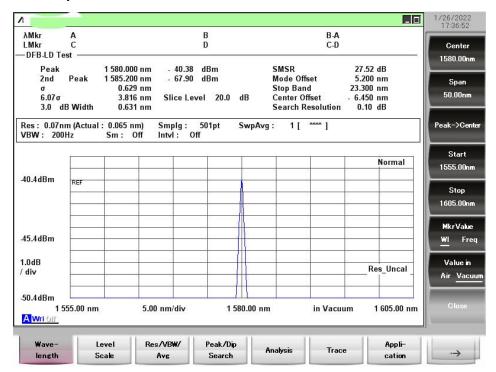


Test light source spectrum

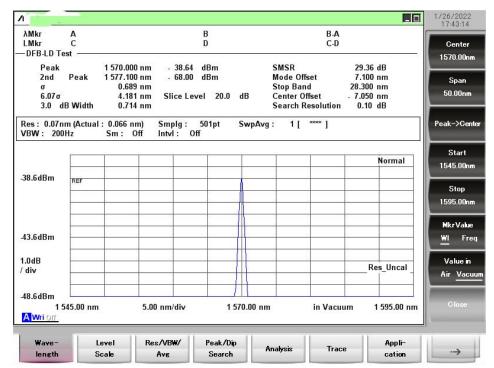




1. Measured spectrum



1580nm



1570nm

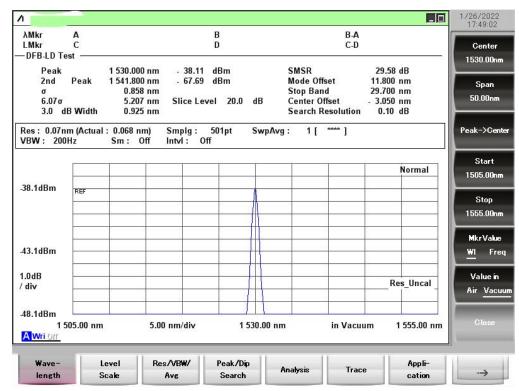
🦲 (852)30786684





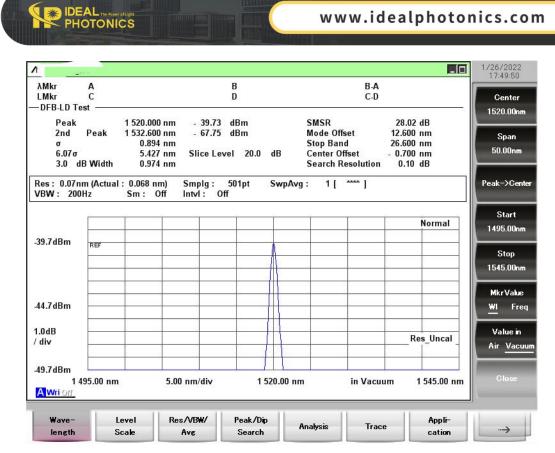


1560nm



1530nm

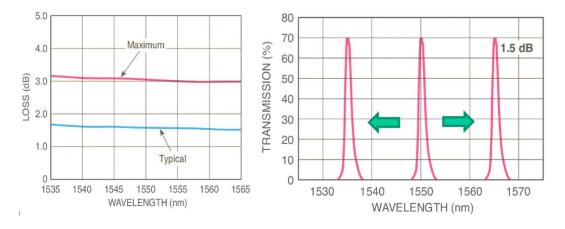




1520nm

2. Relationship between wavelength and knob position

Wavelength(nm)	Knob Location
1520	4.48
1530	5.07
1540	5.68
1550	6.4
1560	7.2
1570	8.2
1580	9.6





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Order Info:

TOF- □□□-☆-A8 - XX □□□: Wavelength 1060: 1060nm 1310:1310nm 1550: 1550nm ***** 1620: 1620nm 1850:1850nm 1950:1950nm 2000:2000nm

☆ : Handling Power 500: 500mW 5000: 5W

2100:2100nm

▽: Tuning Range
60: ±30nm
100: ±50nm
XX: Fiber and Connector Type
SA=HI1060(The single-mode optical fiber of the corresponding wavelength band is
1060nm as an example)+ FC/APC
SP=HI1060+ FC/PC
PA=PM980 Fiber+ FC/APC
PP=PM980 Fiber+ FC/APC

