# Slide Tunable Type Wavelength Tunable Filter Module

This slide type wavelength tunable filter module can tune arbitrary wavelengths by changing positions of oxide dielectric type filters of which the thickness is precisely distributed in parallel to the substrate surface.

Features

- Realization of a wide wavelength tunable range (60 nm tunable)
- Low insertion loss
- Low variation in insertion loss
- Low variation in bandwidth
- Low PDL (polarization dependence loss)
- Optional tandem implementation of optical filters (realization of the characteristics equivalent of 2-cavity)
- Manufacturing capability for customization of optical filters
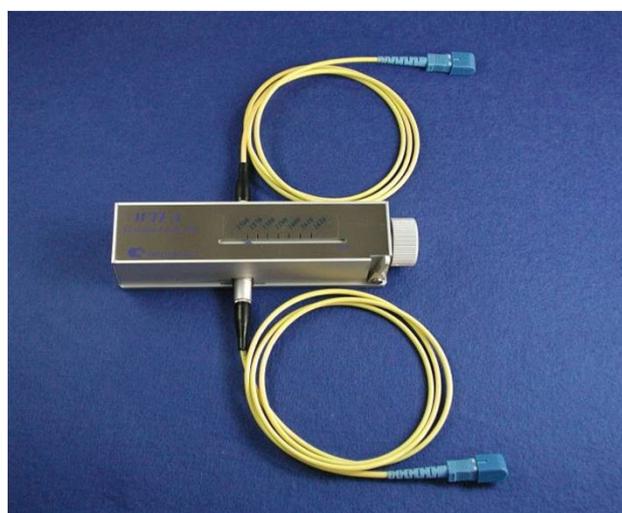
Typical Specifications

Model	WTFA		
Wavelength Range	1470-1530 nm	1520-1580 nm	1560-1620 nm
Half Bandwidth (3 dB Bandwidth)	0.5 nm $\pm$ 0.2 nm	1 nm $\pm$ 0.2 nm	3 nm $\pm$ 0.3 nm
Insertion Loss[*]	$\leq$ 2.0 dB	$\leq$ 1.5 dB	$\leq$ 1.5 dB
PDL	$\leq$ 0.1 dB		
Return Loss	$\geq$ 50 dB		
Optical Fiber	SMF, DSF, PMF (φ3 mm cord)		
Optical Connector	FC/SPC SC/SPC FC/Angled PC SC/Angled PC		

* Specifications for half bandwidth and insertion loss are different in case of tandem implementation.   Please contact us for more information.
* Special orders for near-infrared to visible ranges are also available.
Depending on the wavelength, light sources may not be available for measurement or evaluation. In this case, you may receive a request for light source supply, or the specification values that may be applied to warrant the design.

Product Dimensions
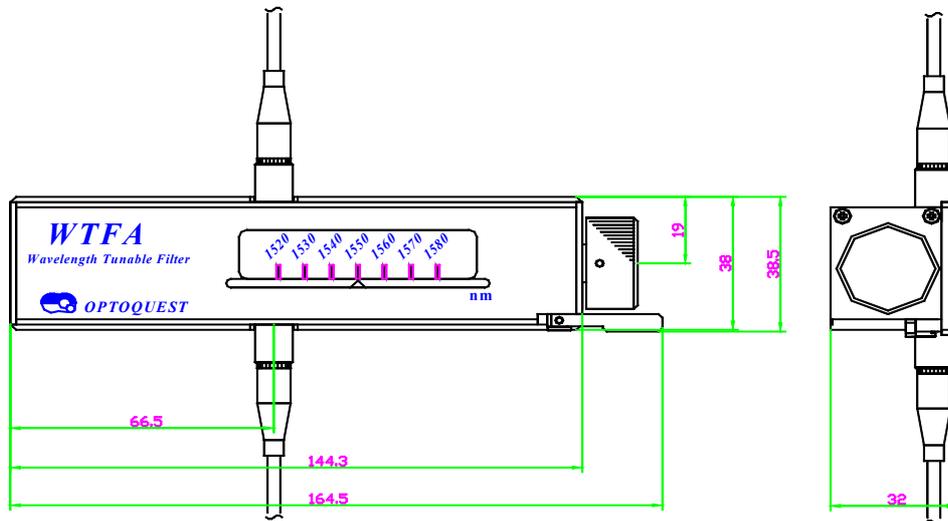
Ordering Instructions

+Wavelength Tunable Filter Module
   Order format: <u>WTFA</u> - <u>(1)</u> - <u>(2)</u> - <u>(3)</u> / <u>(4)</u>
      Order format example: WTFA-1530-1-S/F
         (Wavelength: 1470-1530nm, Half Bandwidth: 1nm, Fiber: SMF, Connecter: FC/SPC)

+Rack (This is Shelf for 19inch rack)
   Order format: <u>RC</u> - <u>19</u>

(1) Wavelength	1530: 1470-1530 nm 1580: 1520-1580 nm 1620: 1560-1620 nm
(2) Standard Half Bandwidth	0.5: 0.5 nm $\pm$ 0.2 nm 1: 1 nm $\pm$ 0.2 nm 3: 3 nm $\pm$ 0.3 nm
(3) Optical Fiber	S: SMF D: DSF P: PMF
(4) Optical Connector	F: FC/SPC S: SC/SPC FA: FC/Angled PC SA: SC/Angled PC

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