

Tunable Optical Filter

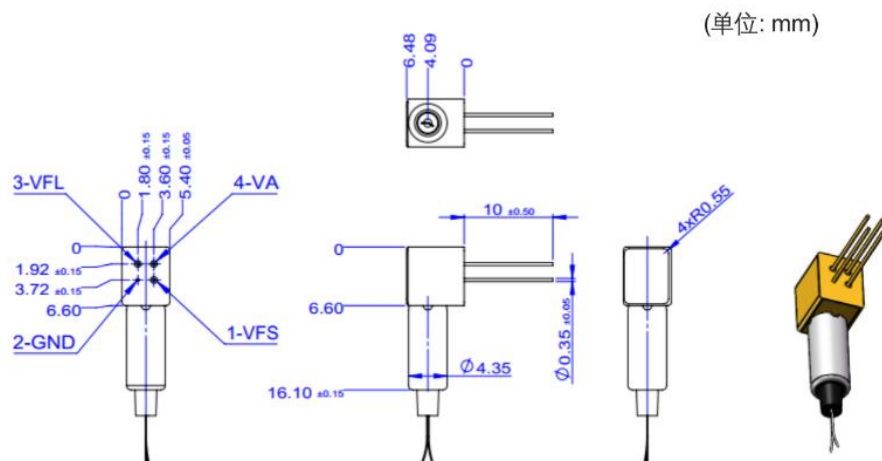
The tunable optical filter(TOF) is based on the principle of combining MEMS micro-mirror and grating technology. It has the characteristics of small compact size, fast speed, long life, stable and reliable.

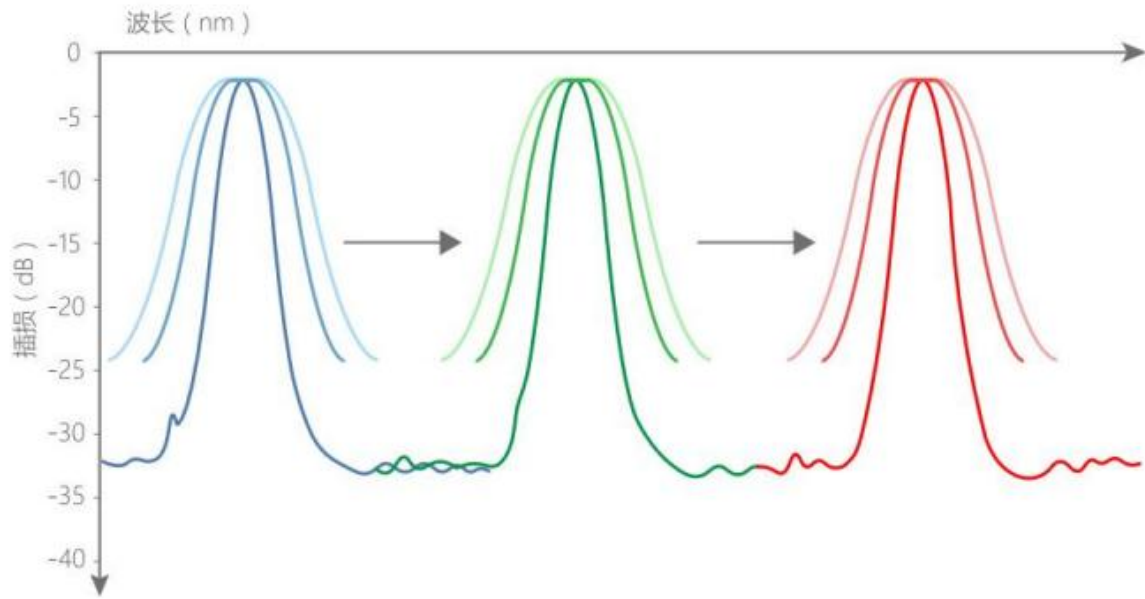
Feature	Application
High thermal stability and repeatability, long life	Optical channel performance monitoring
Spectral analysis Gaussian filter shape	Spectral analysis
With VOA(Variable Optical Attenuator) function	ROADM
Bandwidth@3dB 1.0-1.4nm and 0.35-0.5nm	Signal tracking

Specification

Parameter	Value	
Tunable range (nm)	40	80
Wavelength Range (nm)	1528-1565	1510-1590
Insertion Loss (dB)	<3.5 (typical<2.5)	<4.5 (typical<3.5)
Response Time(ms)	≤ 20	
WDL @0dB attenuation(dB)	1	1.5
Center frequency PDL @ 0dB attenuation(dB)	<0.5	
Bandwidth @ 3dB (nm)	0.35-0.5	1.0-1.4
Bandwidth @ 20dB (nm)	1.8-2.8	2.6~3.6
Return Loss(RL) (dB)	>40	
VOA Type	Dark or Bright	
VOA Attenuation Range (dB)	>35	
Side-Mode Suppression Ratio (SMSR) (dB)	≥ 30	
Life-cycle (cycles)	1*10 ⁹	
Maximum Input Optical Power (dBm)	20	
Operating Temperature (°C)	-5~70	
Storage Temperature (°C)	-40~85	

Mechanical Size (mm)




Ordering Information

TOF	Wavelength (nm)	Tunable Range	Bandwidth	Pigtail	Fiber Type	Length	Connector
	1550	40=40nm 80=80nm	1=1.0-1.4 2=0.35-0.5	0=bare fiber 1=0.9mm tube\	1=G657A1	1= 1m	NE=None FA=FC/APC FC=FC/UPC SA=SC/APC SC=SC/UPC LC=LC/UPC XX=Other