

MEMS Optical Tunable Filter

Features

- Athermal design
- Fast tuning speed
- Wide tuning range
- Low insertion loss
- Low power consumption
- High durability



Applications

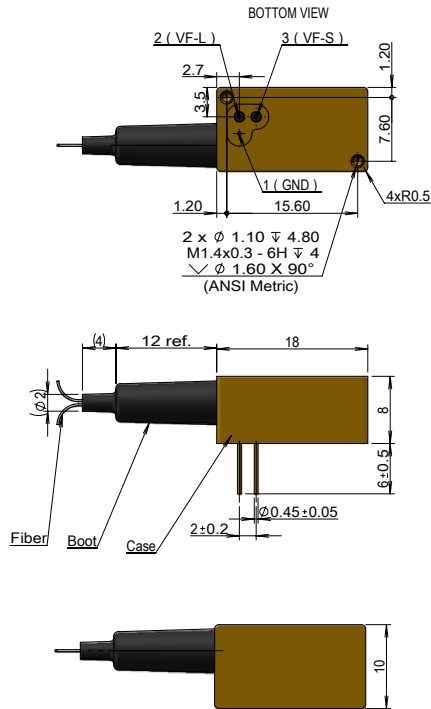
- Optical channel performance monitoring
- ROADM
- Optical signal noise suppression
- Spectrum selection

Main Specifications

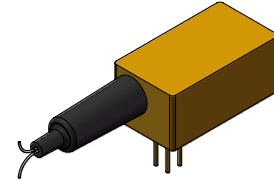
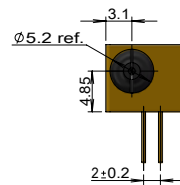
Parameter	Max	Min	Specification	Unit
Wavelength Range			1528.578 ~ 1566.928	nm
			191.325 ~ 196.125	THz
Insertion Loss	√		3	dB
Tuning Speed	√		20	ms
WDL	√		1	dB
PDL @ Center Frequency	√		0.5	dB
BW @ 3 dB			150 ~ 210	GHz
BW @ 20 dB			380 ~ 540	GHz
Return Loss		√	27	dB
TDL	√		1.2	dB
TDFs	√		±50	GHz
Side-Peak Suppression Ratio		√	30	dB
Durability		√	1E9	cycles
Maximum Input Power Handling		√	20	dBm
Operating Temperature Range			-5 ~ 70	°C
Operating Relative Humidity Range			5 ~ 85	%
Storage Temperature Range			-40 ~ 85	°C
Storage Relative Humidity Range			5 ~ 85	%
ESD Threshold (HBM)		√	500	V
DC Drive Voltage			0 ~ 43	V
Power Consumption	√		160	μW
Fiber Type			250 μm SMF fiber	



Mechanical Dimensions



No.	Definition	Interpretation
PIN1	GND	Ground
PIN2	VF-L	Voltage supply for Filter(Long wavelength)
PIN3	VF-S	Voltage supply for Filter(Short wavelength)



NOTES :
1.UNITS:mm
2.CASE SIZE:18x10x8
3.undeclared tolerance:±0.15

Order Information

- The above specifications represent the typical performance of an O-Net TF of this category.
- Please contact our Sales to discuss your specific requirements.

