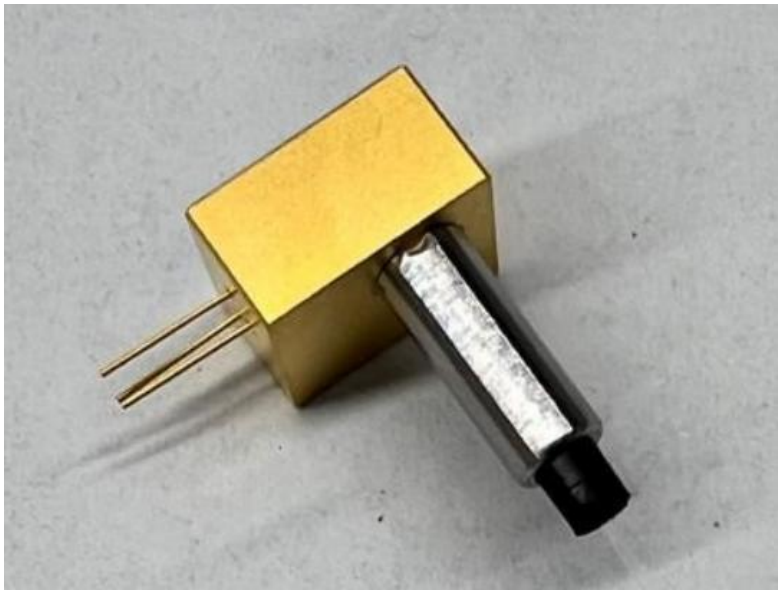
Small Tunable Optical Filter 1064nm TOF with the INSERTION Loss Less Than 2.5dB FCAPC



Product Description

Idealphotonics' MEMS tunable filter is based on the principles of MEMS (micro-electromechanical systems) technology and grating technology, and has the characteristics of small size, fast speed, long life, high stability and reliability.

Part Number

MEMS-TOF-1-10-SM-10-FA

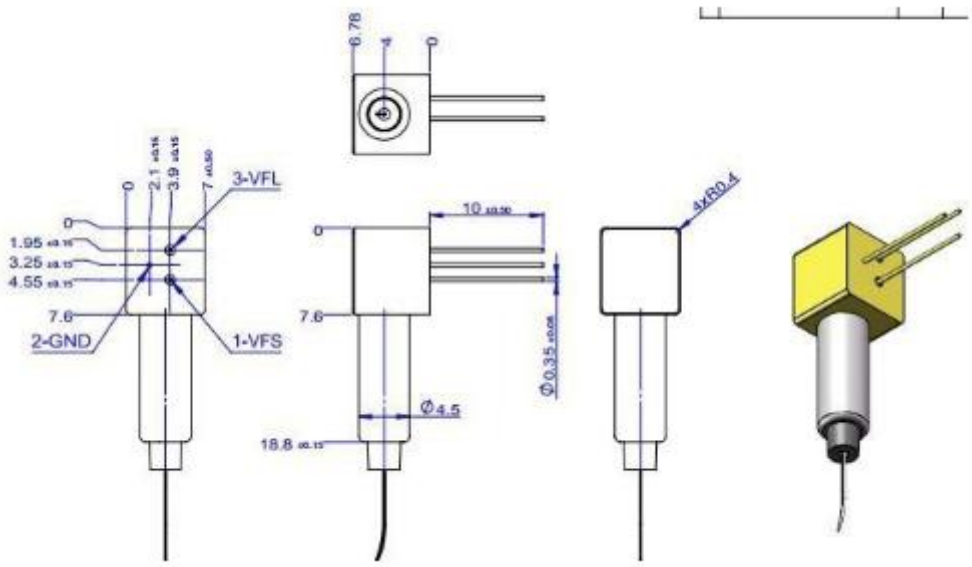
Product features

High thermal stability and repeatability, long service life Good optical performance, low insertion loss and small size 、 Customizable (wavelength and attenuation range)

Application area

Optical channel performance monitoring 、 Spectral analysis 、 ROADM 、 Signal tracking

Dimensional Drawing



Parameters

Main parameters

Parameter	Index	Unit
Wavelength range	1064±20	nm
Insertion Loss (IL)	＜2.5（Typical value 1.5）	dB
Response time	≤5	ms
Bandwidth @3dB	0.8- 1.2	nm
Return loss (RL)	>40	Db
Side peak suppression ratio	≤25	dB
Polarization Dependent Loss	0.5	dB

life	1*10^9		cycles
Maximum input optical power	20		dBm
Operating temperature	- 5	70	℃
Storage temperature	- 40	85	℃
Fiber Type	Hi 1060		- -
Fiber length	1+/-0.05m		- -
Connector Type	FC/APC		- -
Fiber Optic Sleeve	50cm bare fiber, 50cm 900um loose tube		- -
ESD Threshold (HBM)	500		V
DC Driving voltage	0~60		V

Pin Definition

	Definition	Description	Illustration
PIN1	VFS	on for shortwave filtering	1. PIN1&PIN2 When powered, the product operates at 1044nm-1064nm Band. 2. Power range: 0-60V
PIN2	GND	Grounding	
PIN3	VFL	on for long wave side filtering	1. PIN3&PIN2 When powered, the product operates at 1064nm-1084nm Band. 2. Power supply range: 0-60V

Note:
1. PIN1 and PIN3 cannot be powered at the same time .
2. When storing and operating the product, please pay attention to static protection .
3. The product damage voltage is 65V.