High Power 1550nm SM Tunable Optical Filter

High Power 1550nm SM Tunable Optical Filter is a fiber passive component which can be used for filter out variable wavelength range from a wide wavelength bandwidth, it's based on thin film cavity filter technology, the demanded wavelength can be filtered out precisely by adjusting the manual screw. Wavelength can be tuned continuously over a wide spectral range up to 80nm, it's widely used in Fiber Optic Sensor and Optical Testing System.

Application:

Testing System
Fiber Optic Sensor
ASE Control
Lab & Research

Features:

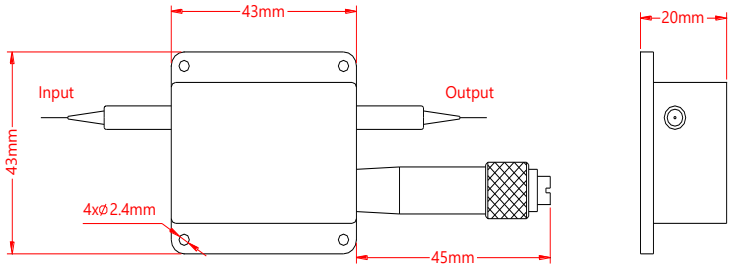
Low Insertion Loss
High Resolution
Wide Tuning Range
High Realibility

Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	1550	nm
Tuning Range		80	nm
Tuning Resolution		0.02 (min.), 0.1 (typ.)	nm
Insertion Loss	IL	4.0 (max.), 2.5 (typ.)	dB
Bandwidth @-3dB	BW	1.2 (max.), 1.0 (typ.)	nm
Typ. Bandwidth @-20dB	BW	10	nm
Polarization Dependent Loss	PDL	0.35 (max.), 0.15 (typ.)	dB
Polarization Mode Dispersion	PMD	0.5 (max.), 0.3 (typ.)	ps
Min. Return Loss	RL	40	dB
Max. Optical Power (CW)	P	0.5, 1, 3, 5, 10	W
Max. Tensil Load		5	N
Fiber Type		SMF-28e fiber	-
Operating Temperature	T	0~70	℃
Storage Temperature	T	-40~85	℃
Package Dimension			mm

Notice: Above specifications are tested at center wavelength without connector in room temperature @23℃.
For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower. Connectors only 1W CW guarantee.

Drawing:



Ordering Information (Part Number):

HSMTOF-WWWW-HH-J-LL-CC

WWWW	HH	J	LL	CC
Wavelength	**Handling Power**	**Fiber Jacket**	**Fiber Length**	**Connector**
1550 - 1550nm SSSS - Specify	Z5 - 0.5W 01 - 1W 03 - 3W 05 - 5W 10 - 10W SS - Specify	B - 250um Bare Fiber 9 - 900um Loose Tube	05 - 0.5m 08 - 0.8m 10 - 1.0m 15 - 1.5m 20 - 2.0m SS - Specify	NE - None FA - FC/APC FU - FC/UPC SA - SC/APC SU - SU/APC LA - LC/APC LU - LC/UPC SS - Specify