

780nm SM Tunable Optical Filter

780nm 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 40nm, it's widely used in Fiber Optic Sensor and Optical Comb System. High power type is available upon request.

Application:

Optical Comb
Fiber Optic Sensor
ASE Control
Lab & Research

Features:

Low Insertion Loss
High Resolution
Wide Tuning Range
High Reliability

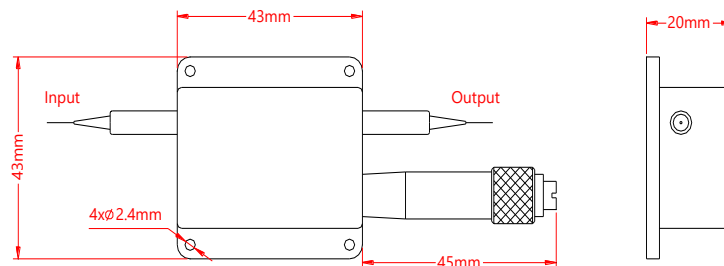


Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	780	nm
Tuning Range		40	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	500	mW
Max. Tensile Load		5	N
Fiber Type		HI 780 fiber	-
Operating Temperature	T	0~70	°C
Storage Temperature	T	-40~85	°C
Package Dimension			mm

Notice: Above specifications are tested at center wavelength without connector in room temperature @23 °C.
For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower.

Drawing:



Ordering Information (Part Number):

SMTOF- WWW - J - LL - CC			
WWW	J	LL	CC
Wavelength	Fiber Jacket	Fiber Length	Connector
780 - 780nm SSS - 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