

Miniature Optical Tunable Filter OTF-30M

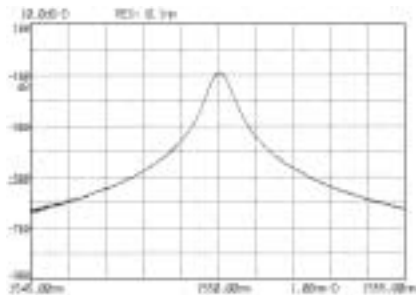
The OTF-30M is a compact, manually-tunable filter module. This device is suitable for basic laboratory use and for system integration applications requiring wavelength selection during installation.

Features

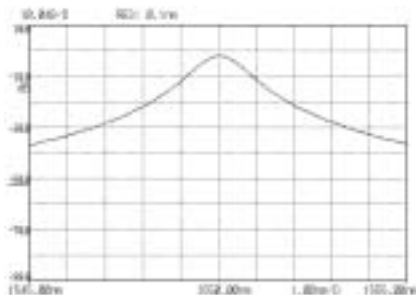
- ▶ 30 nm continuous tuning
- ▶ Manual turning with turning knob
- ▶ Excellent bandpass characteristics and low PDL over entire tuning range

Measurement Data

Bandwidth Type: 003
Filter Structure: S2



Bandwidth Type: 012
Filter Structure: S2



Dimensions

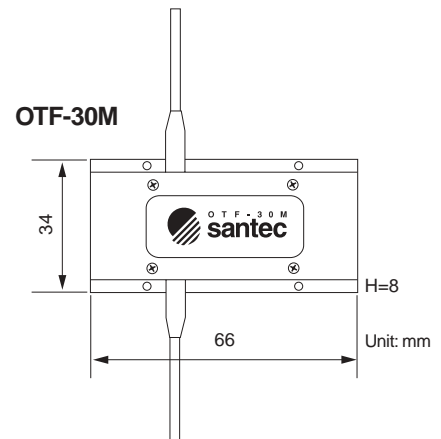


Table 1. Optical Specifications

Parameter	Units	Performance
Center Wavelength	nm	1550
Tuning Range	nm	30
Insertion Loss	dB	Ref. Table 2
Bandwidth@ -3dB	nm	Ref. Table 2
Bandwidth@ -20dB	nm	Ref. Table 2
PDL	dB	0.1 (single stage) / 0.2 (double stage)
Return Loss	dB	45
Operating Temperature	°C	0 to +70
Size	mm	66 x 34 x 8

Table 2. Filter Selection

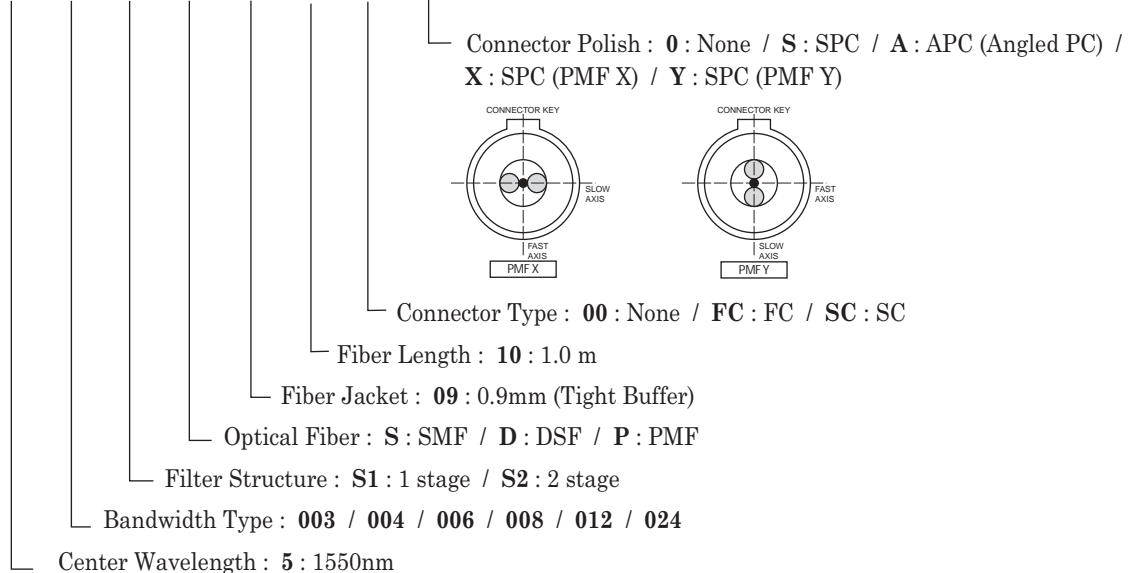
Bandwidth Type	003		004		006	
	S1	S2	S1	S2	S1	S2
Insertion Loss (*1) (dB)	3.0	5.5	3.0	5.0	2.0	3.0
Bandwidth@ -3dB (nm)	0.40±0.1	0.30±0.1	0.50±0.1	0.35±0.1	0.70±0.1	0.50±0.1
Bandwidth@ -20dB (nm)	<3.8	<1.5	<5.0	<1.7	<7.5	<2.4

Bandwidth Type	008		012		024	
	S1	S2	S1	S2	S1	S2
Insertion Loss (*1) (dB)	2.0	2.5	1.5	2.0	2.0	2.0
Bandwidth@ -3dB (nm)	0.95±0.1	0.65±0.1	1.30±0.1	0.90±0.1	2.90±0.3	1.95±0.3
Bandwidth@ -20dB (nm)	<9.8	<3.0	<15.0	<4.5	<32.0	<10.0

*1: When PMF or DSF fiber is specified, the insertion loss increases by 0.5dB.

Ordering Code

OTF-30M - A - B - C - D - E - F - G - H



Please contact santec's customer service to discuss any special requirements.

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