

# MANUALLY TUNABLE BANDPASS FILTER

DiCon's Manually Tunable Bandpass Filter is used to manually adjust the center wavelength of a narrow passband over a 30 nm range around the 1550 nm window. Manually Tunable Bandpass Filters use a hard-coated thin film interference filter which is mounted between two angled fiber collimators. Wavelength selection is made by adjusting the filter angle using a high precision micrometer handle with 0.05 nm tuning resolution.



## FEATURES

- Manual tuning
- C Band use (1535 - 1565 nm)
- Flat Topped Passband
- Excellent tuning resolution (0.05 nm)

## APPLICATIONS

- Tuning the center wavelength of a broadband source
- Laboratory test and measurement systems
- Noise suppression
- Wavelength selection



# MANUALLY TUNABLE BANDPASS FILTER

## OPTICAL SPECIFICATIONS<sup>1</sup>

PARAMETER	RATING
Tuning Range	1535 to 1565 nm
Insertion Loss <sup>2</sup>	1.5 dB max.
Tuning Resolution	0.05 nm typ.
PDL <sup>3</sup>	0.15 dB typ.
Back Reflection	-50 dB max
Optical Power <sup>4</sup>	500 mW max
Operating Temperature	-5 to 70 °C
Storage Temperature	-40 to 85 °C
Fiber Type	9/125 μm single mode

- All specifications are without connectors
- IL measured at 1550 nm, 25°C
- Typical PDL at 1550 nm
- High power version (1.5 W) available as a special request

## ORDERING INFORMATION

TF - 1550 -  -  -  -

### Tuning Range

1550 1535 - 1565 nm

### 0.5 dB Bandwidth

0.8 0.8 nm  
3.2 3.2 nm

### Fiber and Fiber Jacket Type<sup>1</sup>

9/TB SMF-28 With 900 μm Tight Buffer  
9/9LT SMF-28 With 900 μm Loose Tube  
9/2LT SMF-28 With 2 mm Loose Tube  
9/3LT SMF-28 With 3 mm Loose Tube

### Connector Type

FC FC/SPC  
FC/APC FC/APC  
N NONE

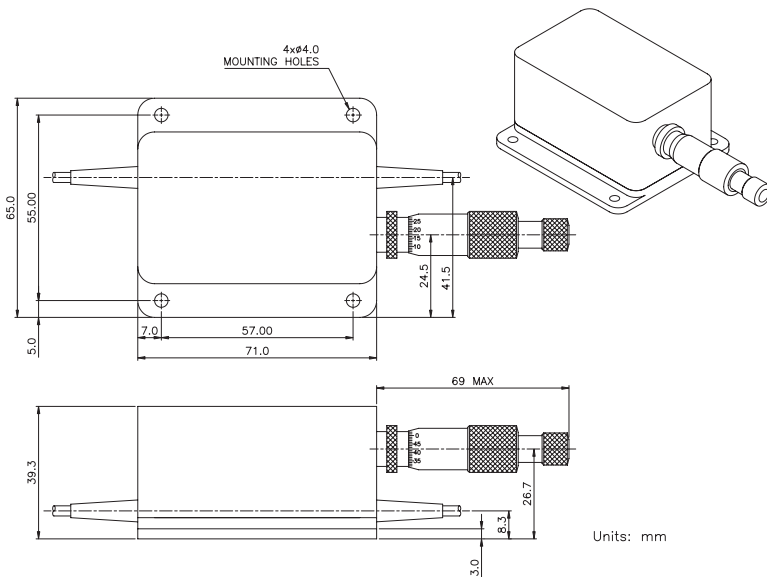
Also Available: SC, SC/UPC, SC/APC, ST, ST/UPC, LC

### Pigtail Length

1 1 Meter  
X Specify X Meters

1. Or other equivalent 9 μm singlemode fiber

## MECHANICAL DIMENSIONS (Units: mm)



## OPTICAL SPECTRUM

