

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 SPECIFICATIONS¹

PARAMETER	RATING
Tuning Range	1535 to 1565 nm
Insertion Loss ²	1.5 dB max.
Tuning Resolution	0.05 nm typ.
PDL ³	0.15 dB typ.
Back Reflection	-50 dB max
Optical Power ⁴	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 Type¹

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

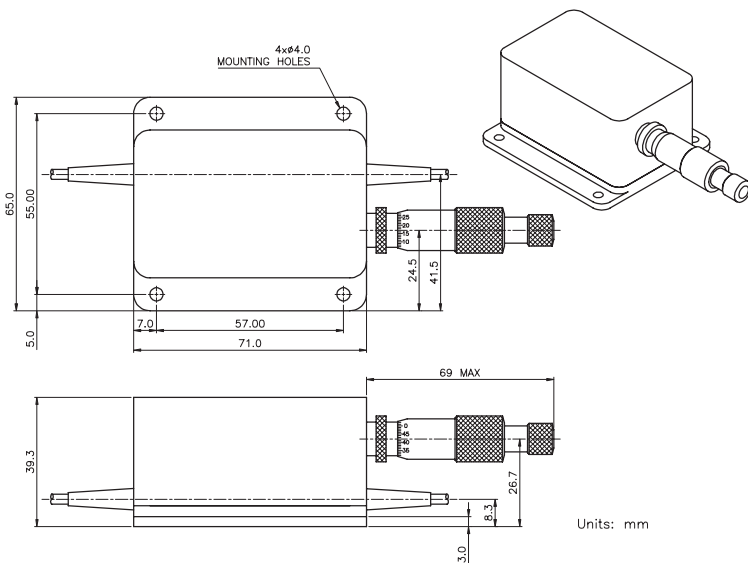
Pigtail Length

1 1 Meter
X Specify X Meters

- Or other equivalent 9 μm singlemode fiber

MECHANICAL DIMENSIONS

(Units: mm)



OPTICAL SPECTRUM

