

MANUALLY TUNABLE BANDPASS FILTER

DiCon's Manually Tunable Bandpass Filter is used to manually adjust the center wavelength of a narrow passband in either the C Band or the L Band. 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 and L Band options available
- 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



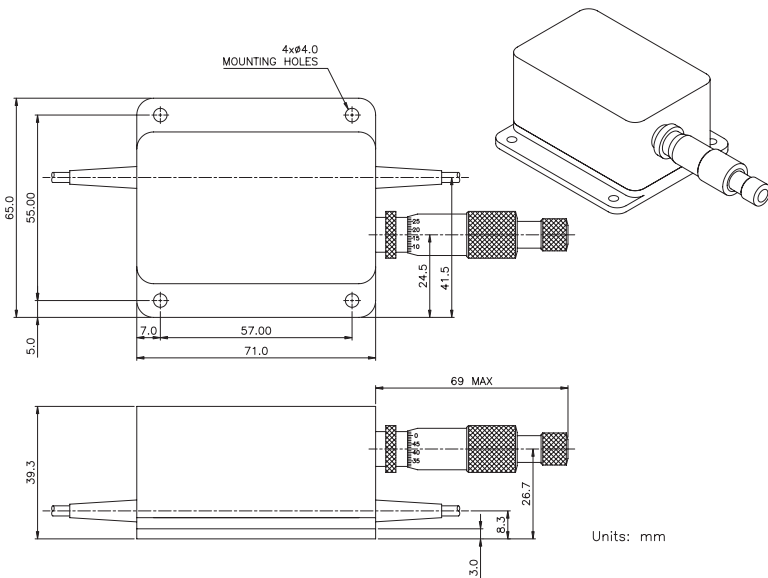
MANUALLY TUNABLE BANDPASS FILTER

OPTICAL SPECIFICATIONS¹

PARAMETER		RATING
Tuning Range	C Band	1535 to 1565 nm
	L Band	1565 to 1595 nm
Min IL @ Peak ²		1.5 dB max.
Tuning Resolution		0.05 nm typ.
PDL	C Band	0.15 dB typ. ³
	L Band	0.15 dB typ. ⁴
Back Reflection		-45 dB max
Optical Power ⁵		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 center wavelength @ 25°C
- Typical PDL is 0.15 dB @ 1550 nm; 0.05 dB @ 1565 nm; 0.3 dB @ 1535 nm
- Typical PDL is 0.05 dB @ 1580 nm; 0.05 dB @ 1595 nm; 0.15dB @ 1565 nm
- High power version (1.5 W) available as a special request

MECHANICAL DIMENSIONS (Units: mm)



Units: mm

ORDERING INFORMATION

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Tuning Range

1550	1535 - 1565 nm
1580	1565 - 1595 nm

0.5 dB Bandwidth

0.8	0.8 nm
3.2	3.2 nm ¹

Fiber and Fiber Jacket Type²

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

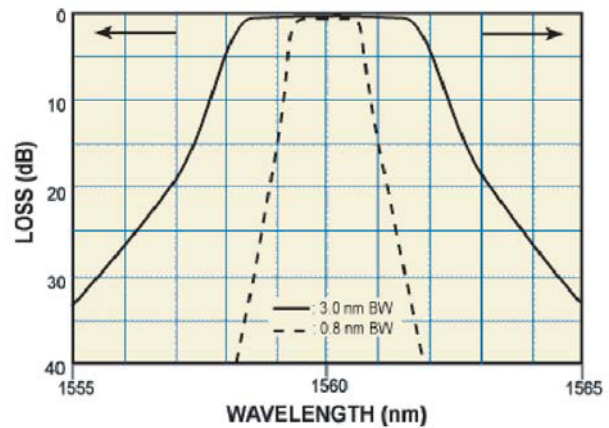
Also Available: SC, SC/UPC, SC/APC, ST, ST/UPC, LC

Pigtail Length

1	1 Meter
X	Specify X Meters

- Only available for the C band (1550 nm) option
- Or other equivalent 9 μm singlemode fiber

OPTICAL SPECTRUM



NOTE: Optical Spectrum example above is for the C Band option
*The L Band option has a similar 0.8 nm BW shape