

# 100 GHZ BENCHTOP MEMS TUNABLE FILTER

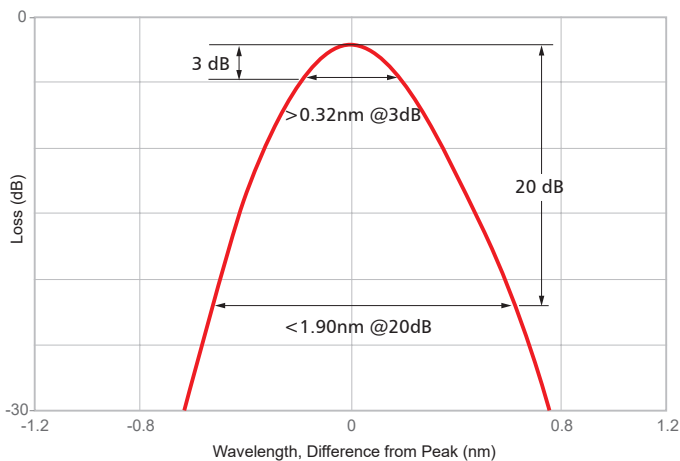


DiCon's **Benchtop MEMS Tunable Filter** is designed for ASE noise suppression and signal clean, typically for lab or production test and measurement applications.

This tunable filter operates by using a grating to de-multiplex the incoming light and then precisely directs the requested passband to the output fiber, using a patented ultra-stable and reliable MEMS mirror.

- 126mm x 106mm x 34mm Benchtop Box
- RS-232 Control
- Fast Tuning Speed

## OPTICAL SPECTRUM



## ORDERING INFORMATION

MTFB - 0.32 - □ - □ - □ - □ - □ - □

Bandwidth @ 3 dB

**0.32** 0.32 nm min

Tuning Range

**13E1** 1260-1340 nm

**13E2** 1290-1370 nm

**E** 1370-1450 nm

**S** 1450-1530 nm

**15/16** 1530-1610 nm

*Custom Tuning Range Available Upon Request*

Fiber Type

**9** 9/125 μm SMF

Connector Type

**FC** FC/SPC

**FC/UPC** FC/UPC

**FC/APC** FC/APC

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

Port Type

**B** Bulkhead Adaptors

Port Length

**F** Front Panel

AC Adapter Plug Type for the Included Power Supply

**AU** AU Type

**EU** EU Type

**UK** UK Type

**US** US Type

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

IL @ Peak <sup>2</sup>	4.5 dB max.
Bandwidth @ 3 dB	0.32 nm min.
Bandwidth @ 20 dB	1.90 nm max.
Back Reflection	-35 dB max.
PDL	0.4 dB max.
Tuning Resolution	10 pm
Tuning Speed	30 ms max.
Optical Power	500 mW max.
Durability	1 billion cycles min.
Operating Temp	-5 to 70 °C
Storage Temp	-40 to 85 °C
Fiber Type	9/125 μm single mode

1. All specifications referenced without connectors.  
 2. IL measured at 25°C +/- 5°C. IL < 5.0 dB over entire operating temperature range.

## ELECTRICAL SPECIFICATIONS

Latching Type	Non-latching	
Control Type	RS232	
Connectors	RS232	DB9 female receptacle
	DC Power Jack	2 x 5.5 mm
AC Adapter Input Voltage	100 to 240 VAC	

Dimensions in mm

