

# 60dB High Isolation Manual Tunable Filter

## 2.7 nm / 340 GHz Passband

DiCon's High Isolation Manual Tunable Filter is used to select a narrow passband from a 30 nm wavelength range.

The user can manually select the passband by turning the precise micrometer adjustment mechanism, and the selected passband can be locked in place mechanically.

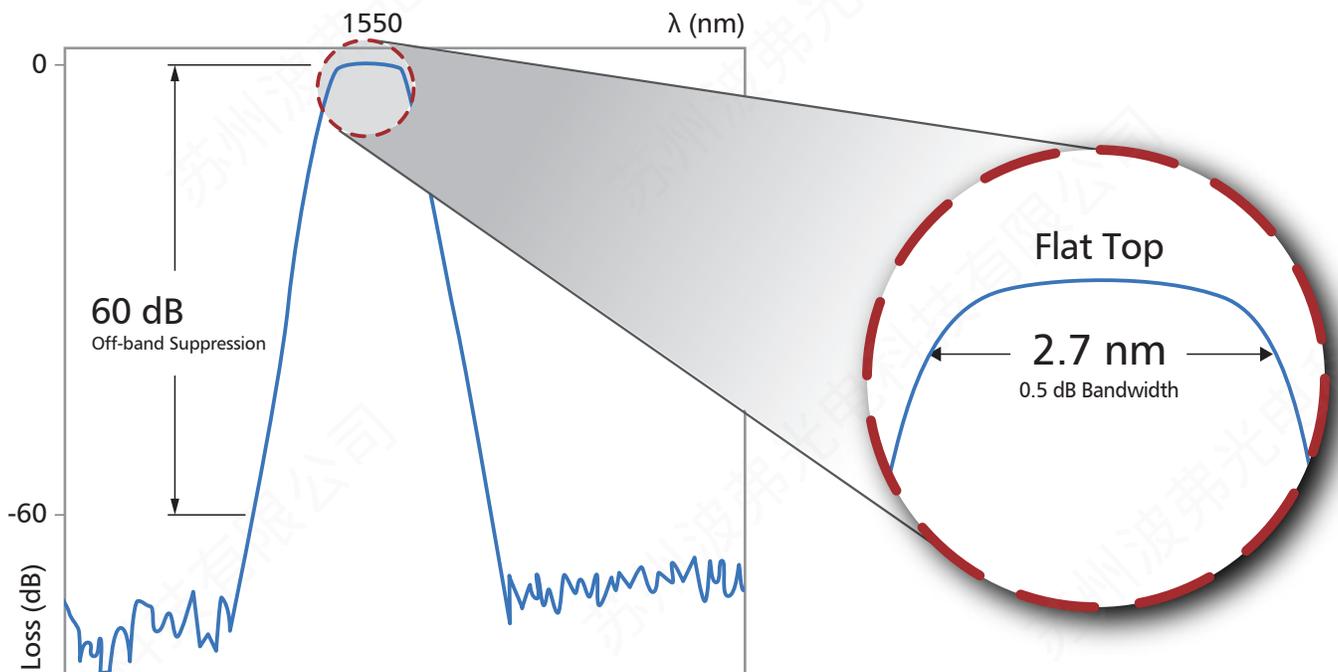


### FEATURES

- Off-band suppression > 60 dB
- Flat top passband
- 2.7 nm passband @ 0.5 dB

### APPLICATIONS

- Increased laser signal to noise ratio
- ASE noise cleanup for EDFA.
- Channel selection for multi-channel signals
- Laboratory test and measurement systems



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2.7 nm / 340 GHz Passband

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

| PARAMETER                  |            | RATING                                   |
|----------------------------|------------|--|
| Tuning Range               |            | 1535 to 1565 nm                          |
| Bandwidth                  | @ 0.5 dB   | 2.7 nm min.                              |
|                            | @ 3 dB     | 3.5 nm min.                              |
|                            | @ 20 dB    | 5.8 nm max.                              |
| Min IL @ Peak <sup>2</sup> |            | 1.5 dB typ. (2.5 dB max.)                |
| Tuning Resolution          |            | 0.05 nm typ.                             |
| PDL                        |            | 0.10 dB typ. (0.25 dB max.) <sup>3</sup> |
| Back Reflection            |            | -55 dB typ. (-40 dB max.)                |
| Optical Power              | Standard   | 500 mW max.                              |
|                            | High Power | 1.5 W 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 0.10 dB @ 1550 nm; 0.03 dB @ 1565 nm; 0.23 dB @ 1535 nm

## ORDERING INFORMATION

**TF2 - 1550 - 2.7 - 9/9LT -**  -  -

Tuning Range

**1550** 1535-1565 nm

Bandwidth

**2.7** 2.7 nm @ 0.5 dB

Fiber and Fiber Jacket Type

**9/9LT** 9/125 μm single mode with  
900 μm Loose Tube

Connector Type

**FC/UPC** FC / UPC

**FC/APC** FC / APC

**SC/UPC** SC / UPC

**SC/APC** SC / APC

**LC/UPC** LC / UPC

**LC/APC** LC / APC

**N** No connectors

Other connectors available upon request

Optical Power

**S** Standard (500 mW)

**H** High Power (1.5 W)

Pigtail Length

**1** 1 Meter

**X** Specify X Meters

## MECHANICAL DIMENSIONS

