

# GP850 MEMS TUNABLE FILTER

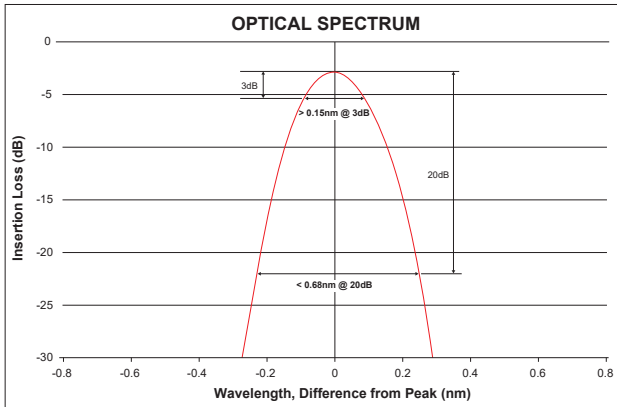
## Singlemode MEMS 50GHz TF Slot Card



DiCon's **MEMS Tunable Filter** uses a diffraction grating to demultiplex the incoming light and then precisely directs the selected wavelength to the output fiber. The slot card is designed for plug-and-play operation with DiCon's GP850 modular platform.

### FEATURES

- $\pm 50$  pm  $\lambda$  Setting Accuracy within the tuning range
- Fast Tuning Speed
- Thermally Stable
- 0.15 nm min. Bandwidth at 3 dB down



### APPLICATIONS

- Optical Channel Performance Monitoring
- ROADM
- Noise Suppression
- Signal Tracking

## ORDERING INFORMATION

**GP850 - SL - F -  - 1S - 50 - 9 -  -  - N**

Product Type

**SL** Slot Card

Device Type

**F** Filter Module

Configuration

**X** Number of Filters

*\*Maximum 4 total filters with FC connectors*

Slot Width

**1S** 1-Slot Module

*\*Custom multi-slot modules available*

Filter Type

**50** 50GHz Tunable Filter

Fiber Type

**9** Corning SMF-28 9 $\mu$ m fiber

*\*Or other equivalent 9mm Singlemode fiber*

Tuning Range

**15** 1529 - 1564 nm

**15W** 1527.21 - 1568.78 nm

**16** 1575 - 1610 nm

Connector Type

**FC** FC/UPC

**FC/APC** FC/APC

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

Connector Key Orientation

**N** None

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

Tuning Range	Standard	15	1529 to 1564 nm
		16	1575 - 1610 nm
	Extended	15W	1527.21 to 1568.78 nm
Min IL @ Peak <sup>2</sup>	Standard	≤ 4.0 dB	
	Extended	≤ 5.0 dB	
Bandwidth @ 3 dB		> 0.15 nm	
Bandwidth @ 20 dB	Standard	< 0.68 nm	
	Extended	< 0.80 nm	
Back Reflection		-35 dB max.	
PDL		0.3 dB max.	
λ Setting Error		±50 pm max.	
Tuning Resolution		10 pm	
Tuning Speed <sup>3</sup>		30 ms max.	
Optical Power		500 mW max.	
Durability		10 <sup>9</sup> cycles min.	
Fiber Type		Singlemode	

1. All specifications are measured separately for each Test Wavelength at room temperature
2. Adds 1.0 dB over entire operating temperature range
3. Optical tuning speed, excluding command processing overhead

### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	0 to 50°C, < 85% RH
Storage Temperature	-40 to 70°C, < 40% RH

### MECHANICAL SPECIFICATIONS

Dimensions in mm

