

GP850 MEMS TUNABLE FILTER

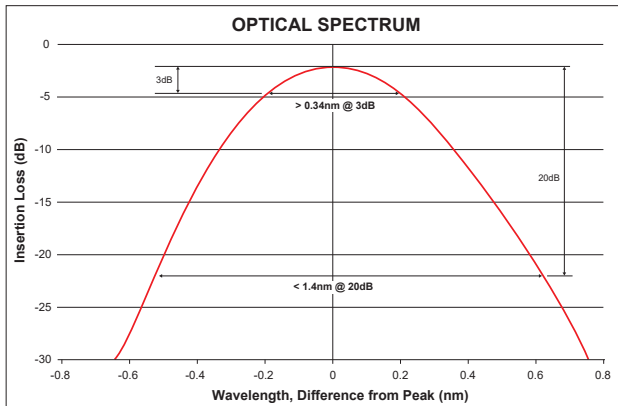
Singlemode MEMS 100GHz TF Slot Card



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

- ± 50 pm λ Setting Accuracy within the tuning range
- Fast Tuning Speed
- Thermally Stable
- 0.34 nm min. Bandwidth at 3 dB down



APPLICATIONS

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

ORDERING INFORMATION

GP850 - SL - F - - 1S - 100 - 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

100 100GHz Tunable Filter

Fiber Type

9 Corning SMF-28 9 μ m fiber

**Or other equivalent 9mm Singlemode fiber*

Tuning Range

13 1290 - 1320 nm

13E1 1260 - 1340 nm

13E2 1290 - 1370 nm

E 1370 - 1450 nm

S 1450 - 1530 nm

15 1529 - 1564 nm

15/16 1530 - 1610 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 SPECIFICATIONS¹

Tuning Range	Standard	13	1290 to 1320 nm
		15	1529 to 1564 nm
		16	1575 to 1610 nm
	Extended	13E1	1260 to 1340 nm
		13E2	1290 to 1370 nm
		E	1370 to 1450 nm
	S	1450 to 1530 nm	
	15/16	1530 to 1610 nm	
Min IL @ Peak ²	Standard	≤ 3.5 dB	
	Extended	≤ 4.5 dB	
Bandwidth @ 3 dB	Standard	> 0.34 nm	
	Extended	> 0.32 nm	
Bandwidth @ 20 dB	Standard	< 1.40 nm	
	Extended	< 1.90 nm	
Back Reflection	Standard	-40 dB max.	
	Extended	-35 dB max.	
PDL		0.3 dB max.	
λ Setting Error		±50 pm max.	
Tuning Resolution		10 pm	
Tuning Speed ³		30 ms max.	
Optical Power		500 mW max.	
Durability		10 ⁹ cycles min.	
Fiber Type		Singlemode	

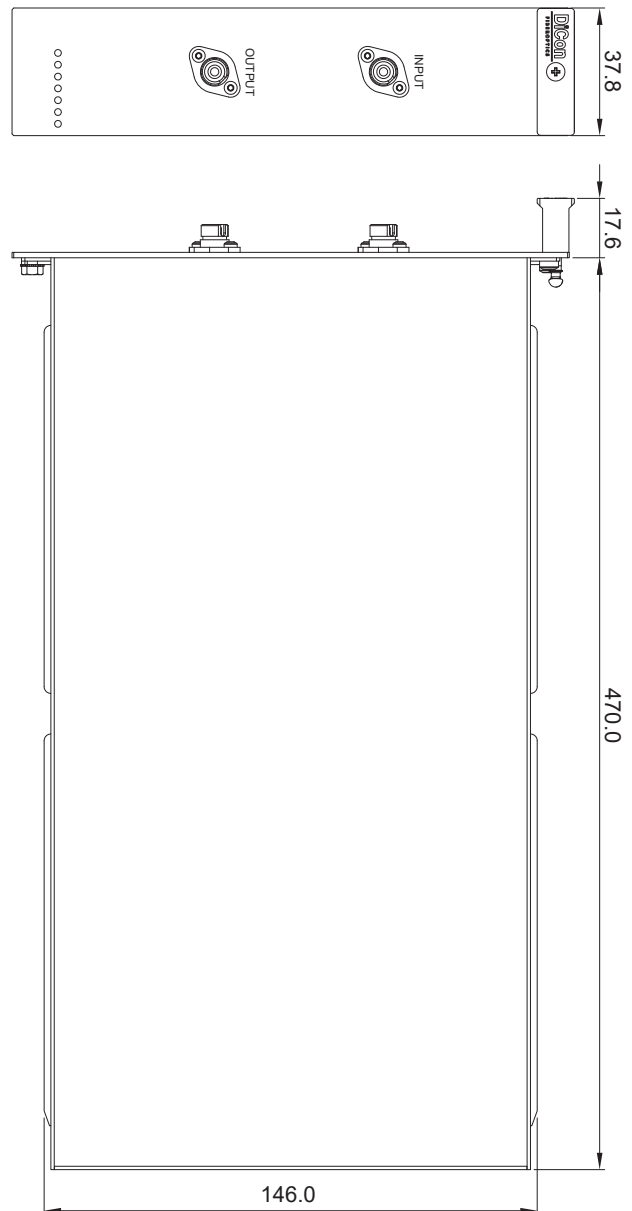
1. All specifications are measured separately for each Test Wavelength at room temperature

2. Adds 0.5 dB over entire operating temperature range

3. Optical tuning speed, excluding command processing overhead

MECHANICAL SPECIFICATIONS

Dimensions in mm



ENVIRONMENTAL SPECIFICATIONS

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

