

# GP750 PROGRAMMABLE INSTRUMENT

## TUNABLE FILTER PLUG-IN MODULE

DiCon's Tunable Filter Plug-In Module de-multiplexes signals with either a 50GHz or 100GHz channel spacing. Each Plug-In Module is designed for easy integration into DiCon's GP750 modular system. All plug-in modules require no configuration and are hot swappable, providing true plug-and-play functionality.



## FEATURES

- 50 or 100GHz Channel Spacing
- Fast Tuning Speed
- Thermally Stable
- $\pm 50\text{pm } \lambda$  Setting Accuracy within C or L Band

## APPLICATIONS

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



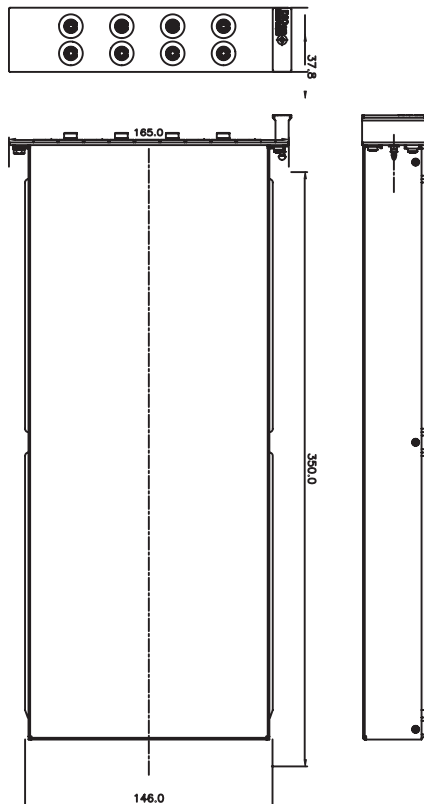
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## TUNABLE FILTER PLUG-IN

### OPTICAL SPECIFICATIONS

| PARAMETER         |        | RATING                      |           |
|-------------------|--------|-----------------------------|-----------|
|                   |        | 100GHz                      | 50 GHz    |
| Tuning Range      | C-Band | 1529-1564 nm                |           |
|                   | L-Band | 1575-1610 nm                |           |
| Min IL @ Peak     |        | ≤ 4.0 dB                    | ≤ 5.0 dB  |
| Bandwidth @ 1 dB  |        | > 0.20 nm                   | > 0.10 nm |
| Bandwidth @ 20 dB |        | < 1.40 nm                   | < 0.86 nm |
| Back Reflection   |        | -40 dB max.                 |           |
| PDL               |        | 0.3 dB max.                 |           |
| λ Setting Error   |        | ± 50 pm max.                |           |
| Tuning Resolution |        | 10 pm                       |           |
| Tuning Speed      |        | 30 ms max.                  |           |
| Optical Power     |        | 500 mW max.                 |           |
| Durability        |        | 10 <sup>9</sup> cycles min. |           |
| Fiber Type        |        | 9/125 μm single mode        |           |

### MECHANICAL DIMENSIONS (Units: mm)



### ORDERING INFORMATION

GP750 - GPF - 1S - □ / □ - □ - 9 - □

#### Product Code

GPF Filter Module

#### Slot Width

1S 1-Slot Module  
*Custom multi-slot modules available*

#### Number of Filters

X Specify X Filters  
*Maximum 4 total filters with FC connectors*

#### Filter Configuration

100 100GHz Tunable Filter  
50 50GHz Tunable Filter

#### Wavelength Range

15 1529 - 1564 nm  
16 1575 - 1610 nm

#### Fiber and Jacket Type

9 Corning SMF-28 9μm fiber  
*Or other equivalent 9μm Singlemode fiber*

#### Connector Type

FC/SPC FC/SPC  
FC/APC FC/APC  
N NONE  
*Also Available: SC, SC/UPC, SC/APC, ST, ST/UPC, LC*