

MODULAR GP700

TUNABLE FILTER PLUG-IN

DiCon's Tunable Filter Plug-In tunes the center wavelength of a narrow passband over a 30-nm range within the 1550-nm window. The module uses a thin-film interference filter mounted between two angled fiber collimators. A high-precision motor with 0.05-nm tuning resolution adjusts the filter angle to select the center wavelength. The Plug-In is designed for easy installation into DiCon's GP700M Modular Mainframe.



FEATURES

- Broad tuning range
- Narrow bandwidth
- Excellent tuning resolution
- Very low insertion loss

APPLICATIONS

Motorized tunable bandpass filters are used to dynamically select among different wavelength channels at the receiver side of dense WDM measurement systems. These plug-ins are also used to tune the center wavelength of incoherent broadband sources (such as white light source or LEDs).



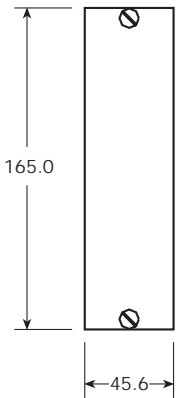
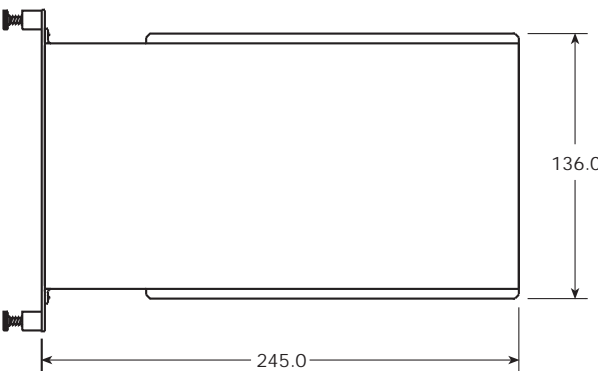
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SPECIFICATIONS¹

Tuning resolution	0.05 nm typ.
0.5-dB bandwidth	0.8 nm typ.
Repeatability	±0.05 nm typ.
Absolute accuracy	±0.3 nm max.
Insertion loss ²	1.5 dB max.
Back-reflection	-50 dB max.
PDL ²	0.05 dB typ.
Turning speed	50 ms min., 1400 ms max.
Fiber type	9/125 Corning SMF-28
Operating temperature	0°C to +40°C
Storage temperature	-20°C to +60°C
Humidity	40°C/90%RH/5 days

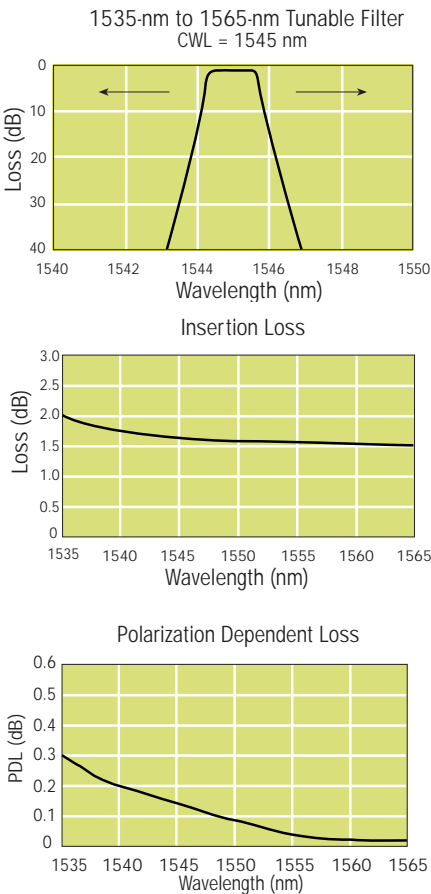
1. All specifications referenced without connectors.
2. Measured at maximum center wavelength.

HOUSING DIMENSIONS



Units: mm

OPTICAL PERFORMANCE



ORDERING INFORMATION

PF - 15 - <input type="checkbox"/>	
Tuning Range ¹	
15	1535.0 - 1565.0 nm
Adapter Type	
FC	FC/SPC
FC/APC	FC/APC
FC/UPC	FC/UPC
SC	SC/SPC
SC/APC	SC/APC
SC/UPC	SC/UPC
ST	ST/SPC
ST/UPC	ST/UPC
LC	LC/UPC
N	None

1. All wavelengths referenced to vacuum.