

ULTRA COMPACT 200 GHZ WDM FILTER

Polarization Maintaining Fiber

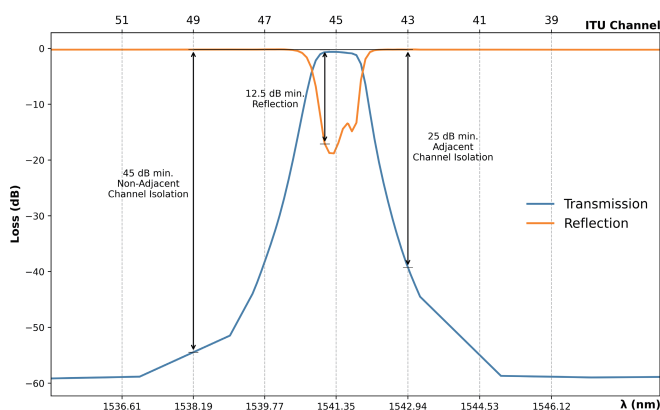


DiCon's **PM fiber Ultra-Compact, WDM (UWDM)** is an ultra compact next generation component able to be made with standard or customer specified bandpass, longpass, shortpass or other custom fixed filters.

The 200 GHz UWDM uses a fiber coupled thin film filter to add or drop channels based on the 200 GHz ITU grid.

- Ultra-Compact: 3.0 mm OD x 21 mm
- Temperature Insensitive
- Epoxy Free for High Power Use

Example Spectrum



ORDERING INFORMATION

UFW2 - - - - - **PM15** - **2B** -

200 GHz ITU Channel Number

X Specify 200 GHz ITU Channel Number
Example: 45

Number of Ports

2 2 Ports
3 3 Ports

Connector Type

N None
FC FC/UPC
FC/APC FC/APC
LC LC/UPC
LC/APC LC/APC
SC SC/UPC
SC/APC SC/APC

**Other connector types are available upon request*

Connector Key Orientation

N None
S Slow Axis
F Fast Axis

Fiber Type

PM15¹ Corning PM 1550 Fiber

1. PER Specification covers C band

Jacket Type

2B 250 μ m Bare Fiber

Pigtail Length

1 1 Meter
X Specify X Meter

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OPTICAL SPECIFICATIONS¹

Passband Width	C - P1	0.5 nm min.
Insertion Loss ²	C - P1	1.0 dB max.
	C - P2	0.4 dB max.
Isolation	C - P1, Adjacent Channel	25 dB min.
	C - P1, Non-Adjacent Channel	45 dB min.
	C - P2, Reflection	12.5 dB min.
Passband Ripple		0.5 dB max.
Back Reflection		-45 dB max.
PER ³		16 dB min.
Optical Power ⁴		500 mW max.
Thermal Stability		1.0 pm/°C max.
Fiber Type		Panda PM

1. All specifications are measured separately at room temperature for each Test Wavelength
2. Measured with 3-jumper method or equivalent (See TIA/EIA 526-7)
3. PER is defined with connectors; PER without connectors is 18 dB minimum
4. Met by design, not measured

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-5 to 70°C, < 85% RH
Storage Temperature	-40 to 85°C, < 40% RH

MECHANICAL DRAWING

Dimensions in mm

2 Port Filter



Port Definitions

- C = Input Port
- P1 = Output Port

3 Port Filter



Port Definitions

- C = Common Port
- P1 = Transmission Port
- P2 = Reflection Port