

PM ULTRA-COMPACT WDM

100 GHz

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 100 GHz UWDM uses a fiber coupled thin film filter to add or drop channels based on the 100 GHz ITU grid.

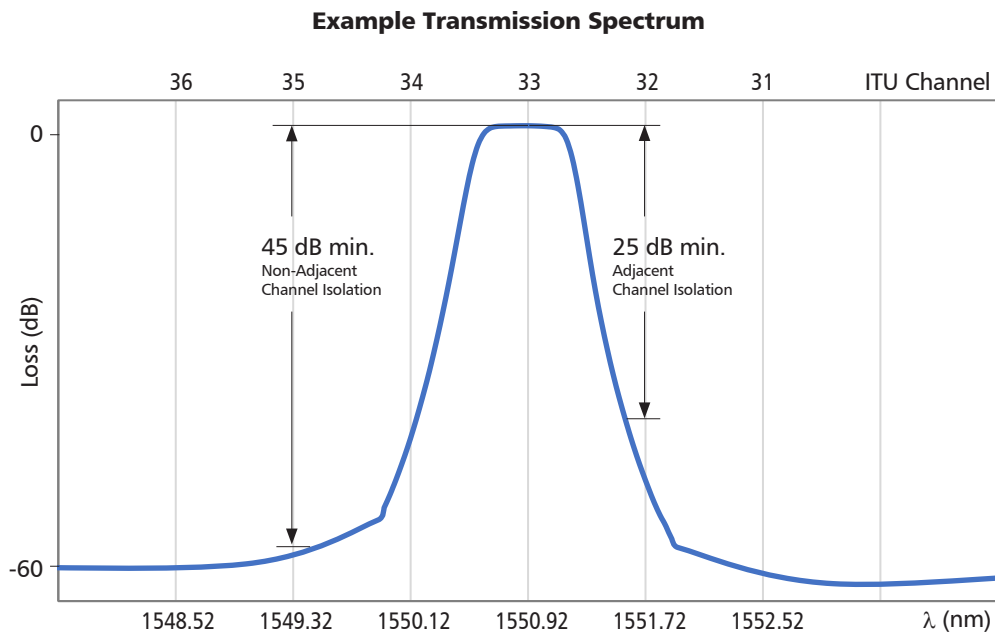


FEATURES

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

APPLICATIONS

- Commercial & Defense Networks
- Test & Measurement
- ASE Noise Suppression



PM ULTRA-COMPACT WDM 100 GHz

OPTICAL SPECIFICATIONS

Specifications without connectors at approx. 23°C.

PARAMETER		RATING
Passband Width	C - P1	0.22 nm min.
Insertion Loss	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.
Extinction Ratio ¹		18 dB min.
Optical Power		500 mW max.
Thermal Stability		1.0 pm/°C max.
Operating Temperature		-5 to 70 °C
Storage Temperature		40 to 85 °C
Fiber Type		Panda Fiber

1. extinction ratio with connectors is 15 dB min.

MECHANICAL SPECIFICATIONS

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

ORDERING INFORMATION

UFW1 - □ - □ - □ - □ - □ - □ - □ - □

Product Code

UFW1 Ultra Compact
100 GHz WDM Filter

100 GHz ITU Channel Number

X Specify 100 GHz ITU
Channel Number
Example: 32

Number of Ports

2 2 Ports
3 3 Ports

Connector Type

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

Connector Key Orientation

S Slow Axis
F Fast Axis
N None

Fiber Type

PM13 Corning PM 1300 Fiber
PM15 Corning PM 1550 Fiber

Jacket Type

BF 250 um bare fiber

Pigtail Length

1 1 Meter
X Specify X Meter