

# ULTRA-COMPACT WDM

## 100 GHz

DiCon's 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.

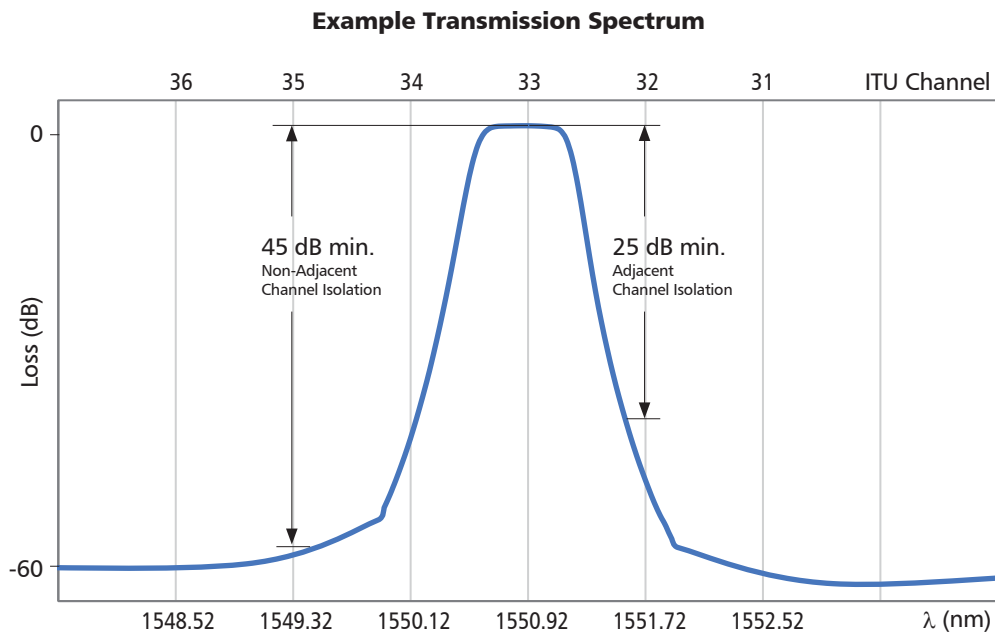


### FEATURES

- 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



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### 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.
PDL		0.1 dB max.
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		9/125 um Singlemode

### 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

#### Fiber and Jacket Type

**9/BF** 9/125 um Singlemode, Bare Fiber

#### Pigtail Length

**1** 1 Meter  
**X** Specify X Meter