

ULTRA-COMPACT WDM

Coarse

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

FEATURES

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

APPLICATIONS

- Commercial & Defense Networks
- Test & Measurement



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OPTICAL SPECIFICATIONS

Specifications without connectors at approx. 23°C.

PARAMETER		RATING
Passband Width	C - P1	13.0 nm min.
Insertion Loss	C - P1	1.0 dB max.
	C - P2	0.6 dB max.
Isolation	C - P1, Adjacent Channel	30 dB min.
	C - P2, Within Passband	13 dB min.
Back Reflection		-45 dB max.
PDL		0.1 dB max.
Optical Power		500 mW 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
 INPUT is the same as C
 OUTPUT is the same as P1

3 Port Filter



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

ORDERING INFORMATION

UCW2 - □ - □ - □ - □ - □

Product Code

UCW2 Ultra Compact CWDM Filter

CWDM Center Wavelength*

1271	1271 nm
1291	1291 nm
1311	1311 nm
1331	1331 nm
1351	1351 nm
1391	1391 nm
1411	1411 nm
1431	1431 nm
1451	1451 nm
1471	1471 nm
1491	1491 nm
1511	1511 nm
1531	1531 nm
1551	1551 nm
1571	1571 nm
1591	1591 nm
1611	1611 nm

*Note: Custom wavelengths available.

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 Type*

9/BF 9/125 um Singlemode, Ultra bare fiber

*Note: Custom fiber types available.

Pigtail Length

1	1 Meter
X	Specify X Meter