

**Introduction:**

CWDM Filter Channel XXXX

**Features:**

- High Isolation
- Low Insertion Loss
- Complies with RoHS
- Complies with Telcordia GR-1209, GR-1221

**Applications:**

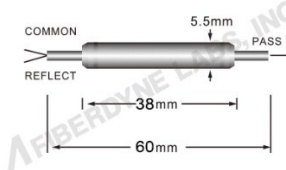
- Local Area Networks
- FTTH Networks
- CATV
- OADM



**Specifications:**

Parameters		Unit	Specification
Center Wavelength		nm	1270/1290/.../1590/1610
			1271/1291/.../1591/1611
Channel Spacing		nm	20
Bandwidth @-0.5dB (Typical)		nm	≥13 (20nm channel spacing)
Pass Channel	Insertion Loss (Typical)	dB	≤0.8 (0.6)
	Isolation (Typical)		≥25 (30)
Reflect Channel	Insertion Loss (Typical)	dB	≤0.6 (0.4)
	Isolation (Typical)		≥12 (14)
Return Loss/Directivity (Typical)		dB	≥45/50 (50/55)
Polarization Dependent Loss		dB	≤0.1
Insertion Loss Temp. Sensitivity		dB/°C	≤0.005
Power Handling		mW	300
Operating Temperature		°C	-5~70

**Package Dimensions:**



Part A

F	D	C	W	0	0	2	X	X	X	X	1	1	1	0
				5	6	7	8	9	10	11	12	13	14	15
Fiberdyne Labs, Inc. CWDM Filter														

5 <sup>th</sup> Digit	Function	0 = 1 x 2
6 <sup>th</sup> Digit	Reserved	0 = 0
7 <sup>th</sup> Digit	Channel Spacing	2 = 20nm
8-11 Digits	CWDM Wavelength	1270 = 1270/1271 1290 = 1290/1291 ... 1590 = 1590/1591 1610 = 1610/1611
12 <sup>th</sup> Digit	Packaging	1 = Steel Tube H = Heavy Duty
13 <sup>th</sup> Digit	Jacket Type	1 = 250µm 9 = 900 µm 2 = 2mm 3 = 3 mm
14 <sup>th</sup> Digit	Overall Length	0 = 0.5 Meter 1 = 1 meter X = Custom
15 <sup>th</sup> Digit	Connector Type on all legs unless custom	0 = None 1 = ST/UPC 6 = SC/UPC 7 = FC/UPC A = FC/APC B = SC/APC L = LC/UPC N = LC/APC X = Custom

**Coarse Wavelength Division Multiplexing (CWDM) "Grid"**  
Table of Commonly used CWDM Wavelengths

Center Wavelengths *	Cisco "Colors"	Wavelength "Codes" **
1470	Gray	47
1490	Violet	49

1510	Blue	51
1530	Green	53
1550	Yellow	55
1570	Orange	57
1590	Red	59
1610	Brown	61

**Notes:**\* Per ITU G.694.2; wavelength spacing = 20nm, 1270 - 1450nm also available  
 \*\*Some vendors use these "codes," to describe the wavelengths.  
 These codes are the middle digits of the wavelength-not "channel numbers."

**Example:** FDCW00215501110  
 This gives you CWDM Filter, 1x2, 1550nm  
 250um fiber with no connectors.

Part Number	Description	Buy
FDCW002XXXX1110	CWDM Filter Channel XXXX	Call to Order

**Note:** Filters can be customized with 900um, 2mm, 3mm jackets, as well as different connector options and packaging to meet your specific requirements.  
 Please contact the Fiberdyne Sales Department for part number and pricing for your custom requirements.