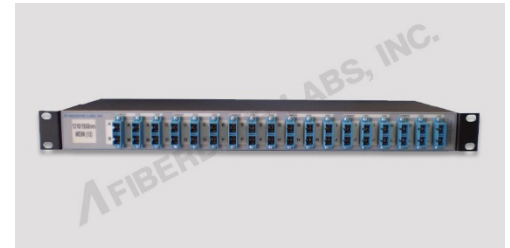


### Introduction:

Fiberdyne Labs Wavelength Division Multiplexer (WDM) allows the user to effectively double the capacity of the currently installed fiber by allowing two different wavelengths or signals to travel over the same fiber at the same time. These signals do not combine with each other, the degree to which they maintain their individuality is the isolation specification. Fiberdyne Labs manufactures a complete family of WDM Modules. Select from 19" Rack Modules, Wallmount Modules, or LGX style Modules.



### Note:

Fiberdyne offers a robust WDM offering. Our LEAD TIMES as well as PRICING are up to 1/2 the lead time and 1/2 the costs of other brands. Click or call us today to see what we have in stock or what we can make for you.

### WDM Module Specifications:

Filter Technology		Fused Biconic Taper		Thin Film Filter (TFF)		
Filter Order Code		Premium	High Isolation	Wide Band High Isolation	Wide Band Standard Isolation	FTTX
		PA	HA	WH	WS	TF
Wavelength & Bandwidth	nm	1310/1550	1310/1550	1460-1620 P 1260-1360 R	1260-1360 P 1410-1620 R	1535-1620 P 1260-1500 R
Insertion Loss (without connectors)	Max. dB	0.4	0.8	< 1.0 P / < 1.0 R	< 0.6 P / < 0.4 R	< 0.6 P / < 0.4 R
Isolation	Min. dB	17	34	> 45 P / > 45 R	> 30 P / > 15 R	> 30 P / > 15 R
Wavelength Bandwidth	nm	± 10	± 15			
Polarization Dependent Loss	Max. dB	0.1	0.1	< 0.2	< 0.1	< 0.1
Directivity	Min. dB	60	60	> 55	> 55	> 50
Operating Temperature	°C	-40 To +85	-40 To +85	0 To +70	-20 To +70	-20 To +70
				P = Pass Leg, R = Reflect Leg		

Ordering Information												
F	W	X	X	-	X	X	X	X	X	-	X	X
		3	4	-	5	6	7	8	9	-	10	11
FW = Fiberdyne Labs, Inc. Wave Division Multiplexer												

Specifications:  
[Coupler Module Reference Drawing](#)

<b>3rd. Digit</b>	Center Wavelength	1 = 1310/1550 2 = High Isolation 1310/1550 3 = Wideband/High Isolation 4 = FTTX (1310, 1490, 1550) 5 = Wideband/Standard Isolation
<b>4th. Digit</b>	Number of WDMs in Module	1 = (1) 1x2 2 = (2) 1x2 3 = (3) 1x2 Continue pattern for number of WDMs in the module
<b>5th. Digit</b>	Package	0 = Fiberdyne / LGX compatible, common pigtail, wavelength adapters 1 = Fiberdyne / LGX compatible; common adapters, wavelength adapters 2 = Fiberdyne / LGX compatible; common pigtail, wavelength pigtails 6 = Corning compatible Reduced Fusion Splice Tray; common pigtail; wavelength pigtails 7 = 1U high, 19" Rackmount Module (adapters or pigtails available) 8 = Customer requested custom build 9 = Wall Mount Module (adapters or pigtails available) C = Corning Eclipse compatible; common adapter, wavelength adapters D = Fiberdyne Tray 175 x 90 x 12mm (6 7/8" x 3 1/2" x 1/2") pigtails only M = 120 x 80 x 18mm Plastic Case (pigtails only) S = 100 x 80 x 10mm Plastic Case (pigtails only)
<b>6th. Digit</b>	Grade	1 = Ultra
<b>7th. Digit</b>	Fiber Type	0 = Corning SMF-28e
<b>8th. Digit</b>	Connector Type on <b>Common</b> Leg or Port	0 = None            5 = ST 1 = FC                7 = Specify 2 = FC/APC        L = LC 3 = SC                N = LC/APC 4 = SC/APC
<b>9th. Digit</b>	Connector Type on <b>Wavelength</b> Leg or Port	0 = None            5 = ST 1 = FC                7 = Specify 2 = FC/APC        L = LC 3 = SC                N = LC/APC 4 = SC/APC
<b>10th. Digit</b>	Length of Common Leg	0 = Adapter        3 = 3 Meters 1 = 1 Meter        4 = 4 Meters 2 = 2 Meters       5 = 5 Meters
<b>11th. Digit</b>	Length of Wavelength Leg	0 = Adapter        3 = 3 Meters 1 = 1 Meter        4 = 4 Meters 2 = 2 Meters       5 = 5 Meters

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