

Introduction:

Wavelength Division Multiplexers (WDMs) enable end users to channels of light in premium and high isolation grades. Available in premium grade 1310/1550nm variations, select from light, medium and heavy-duty casings. Also available are WDM modules for wall and rackmounts, as well as termination boxes. All WDMs are terminated with your requirements in mind and custom connectorization is available upon request. Ask your Fiberdyne sales representative about custom requirements you may have.



Wavelength Division Multiplexer Specifications				
Type/Grade	Premium	High Isolation	Wideband	FTTH
Center Wavelength (nm)	1310/1550	1310/1550	1310/1550	1310/1490 = 1550
Wavelength Range (nm)	± 10	± 15	± 50	1260-1500 1540-1570
Insertion Loss (dB*)	<0.4	<0.8	<0.8	
Isolation (dB)	>20	>40	>45	
Polarization Dependent Loss (dB)	<0.1	<0.1	<0.1	
Directivity (dB)	>60	>60	>55	
Return Loss (dB)	>65	>65	>55	
Operating Temperature (°C)	-40 To +85	-40 To +85	0 To +65	
Storage Temperature (°C)	-40 To +85	-40 To +85	-40 To +85	

Filter Case Only

Wide Band 1260-1360
1460-1620
and
FTTH 1260-1500
1540-1565

Available in Modules

Specifications:

[Technical Drawing](#)

Singlemode Fused Wavelength Division Multiplexer														
F	X	X	X	S	1	2	1	3	1	5	X	0	X	X
	2	3	4	5	6	7	8	9	10	11	12	13	14	15
F = Fiberdyne Labs														

2nd Digit	Grade	P - Premium W – Wideband High ISO H - High Isolation S – Wideband Standard ISO T - FTTX
3rd Digit	Type	A - Fused Biconical Taper T- Thin Film Filter
4th Digit	See Packaging Table For Measurements	L - Light Duty M- Medium Duty H - Heavy Duty Y - Y Cable, 1 Meter Length 2 = 2MM Heavy Duty
5th Digit	Fiber Type	S - Singlemode
6th & 7th Digits	Configuration	12 - 1 X 2
8th & 9th Digits	Center Wavelength #1	13 - 1310 nm (+ 1490 For FTTX)
10th & 11 Digits	Center Wavelength #2	15 - 1550 nm
12th Digit	Connector Type	0 = None 6 = SC/UPC 1 = ST/UPC B = SC/APC 7 = FC/UPC L = LC A = FC/APC N = LC/APC
13th Digit	Reserved	0 - Reserved
14th Digit	Overall Length	Specify (1 or 2 Typical)
15th Digit	Length Unit	M - Meter (1 or 2 Overall Length) F - Feet

Packaging Table

- L - Light Duty (250um, 0.13 x 2.2")
- M - Medium Duty (900um, 0.13 x 2.2")
- H - Heavy Duty (3mm, 4" x 0.6 x 0.3")
- Y - Y Cable (3mm, 1 x 2 only)
- 2 = 2MM Heavy Duty

* Only Available in premium grade

Wavelength Division Multiplexers Light Duty

Part Number	Description
FPALS121315001M	Fiberdyne Labs 1310/1550nm WDM, Premium Grade, Light Duty, No Connectors

Wavelength Division Multiplexers Medium Duty

Part Number	Description
FPAMS121315001M	Fiberdyne Labs 1310/1550nm, WDM, Premium Grade, Medium Duty, No Connectors
FPAMS121315101M	Fiberdyne Labs 1310/1550nm, WDM, Premium Grade, Medium Duty, ST/UPC Style Connectors
FPAMS121315701M	Fiberdyne Labs 1310/1550nm, WDM, Premium Grade, Medium Duty, FC/UPC Style Connectors
FPAMS121315A01M	Fiberdyne Labs 1310/1550nm, WDM, Premium Grade, Medium Duty, FC/APC Style Connectors
FPAMS121315601M	Fiberdyne Labs 1310/1550nm, WDM, Premium Grade, Medium Duty, SC/UPC Style Connectors
FPAMS121315B01M	Fiberdyne Labs 1310/1550nm, WDM, Premium Grade, Medium Duty, SC/APC Style Connectors

Wavelength Division Multiplexers Heavy Duty

Part Number	Description
FPAHS121315001M	Fiberdyne Labs 1310/1550nm, WDM, Premium Grade, Heavy Duty, No Connectors
FPAHS121315101M	Fiberdyne Labs 1310/1550nm, WDM, Premium Grade, Heavy Duty, ST Style Connectors
FPAHS121315701M	Fiberdyne Labs 1310/1550nm, WDM, Premium Grade, Heavy Duty, FC/UPC Style Connectors
FPAHS121315A01M	Fiberdyne Labs 1310/1550nm, WDM, Premium Grade, Heavy Duty, FC/APC Style Connectors
FPAHS121315601M	Fiberdyne Labs 1310/1550nm, WDM, Premium Grade, Heavy Duty, SC/UPC Style Connectors
FPAHS121315B01M	Fiberdyne Labs 1310/1550nm, WDM, Premium Grade, Heavy Duty, SC/APC Style Connectors

High Isolation Wavelength Division Multiplexer Modules

Part Number	Description
FHAHS121315001M	Fiberdyne Labs WDM Module, 1310/1550nm, High Isolation, No Connectors
FHAHS121315101M	Fiberdyne Labs WDM Module, 1310/1550nm, High Isolation, ST Style Connectors
FHAHS121315701M	Fiberdyne Labs WDM Module, 1310/1550nm, High Isolation, FC/UPC Style Connectors
FHAHS121315A01M	Fiberdyne Labs WDM Module, 1310/1550nm, High Isolation, FC/APC Style Connectors
FHAHS121315601M	Fiberdyne Labs WDM Module, 1310/1550nm, High Isolation, SC/UPC Style Connectors
FHAHS121315B01M	Fiberdyne Labs WDM Module, 1310/1550nm, High Isolation, SC/APC Style Connectors