

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 |
| 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)

* 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 |