

Introduction:

Fiberdyne Labs is proud to offer high performance 150GHz Dense Wave Division Multiplexer (DWDM) in O-Band wavelengths designed for Hybrid Fiber-Coaxial (HFC) network applications. Modules feature 4 channels, a common input port, and a 1310 upgrade port to allow for future expansion. Options include a single fiber multiplexer or demultiplexer and a dual fiber version that can be either a combination multiplexer and demultiplexer or dual multiplexers or dual demultiplexers. The standard package is the single width LGX module or an ABS flat field module with pigtailed. SC/APC connectors are standard, but alternate connector configurations and packaging options are available.

Features:

- High Isolation
- Low Insertion Loss
- Passive, Bi-directional
- Low Cross Talk
- Multiple package options



Specifications:

Parameters	Values
Wavelength Range (nm)	1260-1495
Channel Passband Width (nm)	0.4
Pass Channel Insertion Loss- Typical/Max (dB)	1.6 / 2.0
Adjacent Channel Isolation (dB)	25
Non-Adjacent Channel Isolation (dB)	40
Directivity (dB)	50
Polarization Mode Dispersion (ps)	0.15
Power Handling (mw)	300
Return Loss (Min)	45
Operating Temperature (°C)	-5 to +65
Storage Temperature (°C)	-40 to +85
Ports	Common
	1325.782 nm (226.125 THz)
	1327.249 nm (225.875 THz)
	1329.220 nm (225.540 THz)
	1330.459 nm (225.330 THz)
	1310 nm Upgrade

Ordering Information:

O-Band 150 GHz 4 Channel Package Options			
Product Description	Package Type	Connectors	Part Number
Fiberdyne Labs Single Fiber 4 Channel O-Band DWDM LGX Module, 1310 Upgrade, SC/APC, Mux	Single Wide LGX (6 Ports)	SC/APC	FDOB-3000
Fiberdyne Labs Single Fiber 4 Channel O-Band DWDM LGX Module, 1310 Upgrade, SC/APC, Demux	Single Wide LGX (6 Ports)	SC/APC	FDOB-3100
Fiberdyne Labs Dual Fiber 4 Channel O-Band DWDM LGX Module, 1310 Upgrade, SC/APC, Mux & Demux	Single Wide LGX (12 Ports)	SC/APC	FDOB-3200
Fiberdyne Labs Dual Fiber 4 Channel O-Band DWDM LGX Module, 1310 Upgrade, SC/APC, Dual Mux	Single Wide LGX (12 Ports)	SC/APC	FDOB-3300
Fiberdyne Labs Dual Fiber 4 Channel O-Band DWDM LGX Module, 1310 Upgrade, SC/APC, Dual Demux	Single Wide LGX (12 Ports)	SC/APC	FDOB-3400
Fiberdyne Labs Single Fiber 4 Channel O-Band DWDM 100x80x10mm ABS Field Module, 1310 Upgrade, 1 Meter 900 um Loose tube Legs, SC/APC, Mux	100 x 80 x10mm ABS Field Module	SC/APC	FDOB-9000
Fiberdyne Labs Single Fiber 4 Channel O-Band DWDM 100x80x10mm ABS Field Module, 1310 Upgrade, 1 Meter 900 um Loose tube Legs, SC/APC, Demux	100 x 80 x10mm ABS Field Module	SC/APC	FDOB-9100
Fiberdyne Labs Dual Fiber 4 Channel O-Band DWDM 100x80x10mm ABS Field Module, 1310 Upgrade, 1 Meter 900 um Loose tube Legs, SC/APC, Mux & Demux	100 x 80 x10mm ABS Field Module	SC/APC	FDOB-9200
Fiberdyne Labs Dual Fiber 4 Channel O-Band DWDM 100x80x10mm ABS Field Module, 1310 Upgrade, 1 Meter 900 um Loose tube Legs, SC/APC, Dual Mux	100 x 80 x10mm ABS Field Module	SC/APC	FDOB-9300
Fiberdyne Labs Dual Fiber 4 Channel O-Band DWDM 100x80x10mm ABS Field Module, 1310 Upgrade, 1 Meter 900 um Loose tube Legs, SC/APC, Dual Demux	100 x 80 x10mm ABS Field Module	SC/APC	FDOB-9400
Fiberdyne Labs Single Fiber 4 Channel O-Band DWDM 100x80x10mm ABS Field Module, 1310 Upgrade, 1 Meter 900 um Loose tube Legs, No Connectors, Mux	100 x 80 x10mm ABS Field Module	None	FDOB-9050
Fiberdyne Labs Single Fiber 4 Channel O-Band DWDM 100x80x10mm ABS Field Module, 1310 Upgrade, 1 Meter 900 um Loose tube Legs, No Connectors, Demux	100 x 80 x10mm ABS Field Module	None	FDOB-9150
Fiberdyne Labs Dual Fiber 4 Channel O-Band DWDM 100x80x10mm ABS Field Module, 1310 Upgrade, 1 Meter 900 um Loose tube Legs, No Connectors, Mux & Demux	100 x 80 x10mm ABS Field Module	None	FDOB-9250
Fiberdyne Labs Dual Fiber 4 Channel O-Band DWDM 100x80x10mm ABS Field Module, 1310 Upgrade, 1 Meter 900 um Loose tube Legs, No Connectors, Dual Mux	100 x 80 x10mm ABS Field Module	None	FDOB-9350
Fiberdyne Labs Dual Fiber 4 Channel O-Band DWDM 100x80x10mm ABS Field Module, 1310 Upgrade, 1 Meter 900 um Loose tube Legs, No Connectors, Dual Demux	100 x 80 x10mm ABS Field Module	None	FDOB-9450

Note: For custom packaging and connector options contact Fiberdyne Sales