

Coarse Wavelength Division Multiplexer (CWDM) Mux/Demux Modules

Fiberdyne Labs, Inc.
Product Specification

Purpose:

To define the operating parameters for Fiberdyne CWDM Mux/Demux Modules.

Specifications:

Parameter	Units	Values		
Number of Wavelengths *		2	4	8
Operating Wavelengths	nm	per ITU-T G.694.2 (CWDM Grid)		
Channel Passband	nm	> 15		
Insertion Loss ** (Typical)	dB	< 1.4	< 1.8	< 2.6
Link Insertion Loss ** (Typical)	dB	< 2.6	< 3.0	< 3.8
Channel Ripple	dB	< 0.3		
Isolation – Adjacent Channel	dB	> 30		
Isolation – Non-adjacent Channel	dB	> 40		
Polarization Dependent Loss	dB	< 0.15		
Polarization Mode Dispersion	ps	< 0.1		
Directivity	dB	> 55		
Return Loss	dB	> 50		
Insertion Loss Temp Sensitivity	dB/°C	< 0.005		
Wavelength Temperature Stability	nm/°C	< 0.002		
Power Capacity	mW	0		
Temperature - Operating	°C	-40 to +85		

Notes:

* Modules with alternate port quantities (e.g. 3, 5, 6 & 7) are also available.

** Insertion Loss values do not include connector loss.

Packaging:

All standard, Fiberdyne modules (i.e. 19/23-inch Rack, ADC, Lucent, Corning).

Standard Port Configuration:

- 1 Upgrade port: cascade modules, later, as additional channels are required.
- 1 Common port: connect to fiber plant or to another module's upgrade port.
- 2+ Add/drop ports: one port per wavelength.