Introduction:

Fiberdyne's Dense Wavelength Division Multiplexer (DWDM) modules, use Athermal Arrayed Waveguide (AAWG) technology. The module can also provide a splitter (i.e. tap), for sampling and monitoring link traffic.

Features:

- Established silica-on-silicon technology
- Extremely loss crosstalk
- Low insertion loss
- Low PDL
- Low Chromatic Dispersion
- Telcordia GR-1221-CORE qualified
- Athermal - External Temperature Control not required

Applications:

- DWDM Transmission
- Wavelength routing
- Optical add/drop multiplexing

Rackmount Options:

- Single Fiber Mux/Demux or Dual Fiber Mux & Demux
- Bi-Directional Test/Monitor Ports
- Directional Dual Test Ports
- Express 1310 Port

Specifications:

Parameter	Specifications		
	Min	Typ	Max
Number of Channels	16/32/40/44/48		
Number Channel Spacing (GHz)	100		
Channel Center Wavelength(nm)	C-band		
Clear Channel Passband	±0.1		
Wavelength Stability	±0.05		
-1dB Channel Bandwidth	0.36		
-3dB Channel Bandwidth	0.51		
Optical Insertion Loss at ITU Grid (dB)		4.5	6.0
Adjacent Channel Isolation (dB)	25		
Non-Adjacent Channel Isolation (dB)	30		

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Parameter	Specifications		
	Min	Typ	Max
Total Channel Isolation (dB)	24		
Insertion Loss Uniformity (dB)			1.0
Directivity (Max Only) (dB)	40		
Insertion Loss Ripple (dB)			1.0
Optical Return Loss (dB)	40		
Polarization Dependent Loss in Clear Channel Band (dB)		0.3	0.5
Polarization Mode Dispersion (ps)			0.5
Maximum Optical Power (dBm)			23
MUX / DEMUX Input / Output Monitoring Range (dBm)	-35		+23
Operating Temperature (C°)	-5	+25	+65
Operating Humidity (%RH)	5		95
Storage Temperature (C°)	-40		+85
Storage Humidity (%RH)	5		95
Package Size (mm)	19" or 23"		

*IL Represents the worst case over+/-0.1nm window around the ITU wavelength.
*PDL was measured on average polarization over a +/-0.1nm window around the ITU wavelength.
*Specifications may change without notice.

Available in several Channel Configurations.
Contact Fiberdyne Sales at sales@fiberdyne.com for your specific requirements.

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