

4/8/16Channels 100GHz Dense Wavelength Division Multiplexer

Description

Takfly's DWDM LGX module is a wavelength division multiplexing technology based on TFF (Thin Film Filter), with multiple wavelength options; It multiplexes optical signals of different wavelengths into a single fiber for transmission, and uses demultiplexing at the receiving end to decompose the signals in the fiber into signals of different wavelengths; DWDM has channel spacing of 100GHz, 200GHz, and other channels, suitable for long-distance, high-capacity and long-distance trunk networks, or ultra large capacity metropolitan area network core nodes.



Features

- Low Insertion Loss
- Wide pass band
- High Channel Isolation
- High Stability and reliability

Applications

- Channel Add/Drop
- DWDM Network
- Fiber Optical Amplifier

Specifications

Parameter		4 Channel		8 Channel		16 Channel	
		Mux	Demux	Mux	Demux	Mux	Demux
Channel Wavelength(nm)		ITU 100 GHz Grid+1270-1350					
Center wavelength Accuracy(nm)		±0.05					
Channel Spacing (GHz) GHz)		100					
Channel Passband (@-0.5dB bandwidth) (nm)		≥0.22					
Insertion Loss		≤1.6		≤2.5		≤3.5	
Channel Uniformity		≤0.6		≤1.0		≤1.5	
Channel Ripple		0.3		0.3		0.3	
Isolation	Adjacent	N/A	>30	N/A	>30	N/A	>30
	Non-adjacent	N/A	>40	N/A	>40	N/A	>40
Insertion Loss Temperature Sensitivity (dB/°C)		≤0.005					
Wavelength Temperature Shifting(°C)		<0.002					
Polarization Dependent Loss(dB)		<0.1					
Polarization Mode Dispersion(PS)		<0.1					
Directivity(dB)		>50					
Return Loss (dB)		>45					
Maximum Power Handling (mW)		500					
Operating Temperature(°C)		-5~+75					
Storage Temperature(°C)		-40~85					
Package dimension(mm)		1. L100 x W80 x H10 (2 CH ~ 8CH Module) 2. L140xW100xH15 (9 CH ~ 18CH Module)) 3. 19 1U Rack 4. LGX					

Above specification are for device without connector

Order Information

Configuration	Channel No.	Channel	Pigtail Type	Fiber length	Dimension (mm)	Connector
M=Mux	04=4 Channel	C20= 1561.42	0=250um	1=1m	1= L100 x W80 xH10	0=None
D=Demux	08=8 Channel	nm	1=900um	2=1.5m	2=L140xW100xH15	1=FC/APC
	16=16	C21= 1560.61	2=2.0mm	3=others	3=19 1U Rack	2=FC/PC
	Channel	nm	3=3.0mm			3=SC/APC
	N=N Channel					4=SC/PC
						5=others