

100GHz DWDM Module

Descriptions

DWDM, the abbreviation of dense wavelength division multiplexer, are based on proven thin-film filter technology and can be used in multi-channel DWDM module. DWDM module(4,8,16 Channels) are cascaded with 1×2 DWDM components.

Features

- ▶ Low Insertion Loss
- ▶ Broadband Transmission
- ▶ High Channel Isolation
- ▶ High Stability and Reliability
- ▶ Epoxy Free in Optical Path

Applications

- ▶ Optical Fiber Communication Systems
- ▶ Channel Add/Drop
- ▶ DWDM Network
- ▶ Router
- ▶ Fiber Optical Amplifier
- ▶ Wavelength Division Multiplexing Systems
- ▶ CATV Networks



Specifications

Parameters		4Ch		8Ch		16Ch	
		Mux	Demux	Mux	Demux	Mux	Demux
Channel Wavelength(nm)		ITU 100GHz Grid					
Channel Spacing(GHz)		100					
Channel Passband (@-0.5dB bandwidth)(nm)		>0.22					
Insertion Loss(dB)		<1.8		<3.7		<5.5	
Channel Uniformity(dB)		≤0.6		≤1.0		≤1.5	
Channel Ripple(dB)		<0.3					
Return Loss(dB)		≥45					
Directivity(dB)		≥50					
Isolation(dB)	Adjacent	NA	>30	NA	>30	NA	>30
	Non-Adjacent	NA	>40	NA	>40	NA	>40
Insertion Loss Temperature Sensitivity(dB/°C)		≤0.003					
Wavelength Temperature Shifting (nm/°C)		≤0.002					
PDL(dB)		<0.1		<0.1		<0.15	

PMD(ps)	≤0.1
Power handling(mW)	≤500
Operating Temperature(°C)	-5 ~ +75
Storage Temperature(°C)	-40 ~ +85
Package Size(mm)	L100×W80×H10 ABS, Others

Remark: 1. Above specifications are for device without connector.

2. For devices with connectors, 0.3dB higher for IL. 5dB lower for RL

Ordering Information

DWDM – A – B – C – D – E – F – G – H – I		
A	Channel Spacing	1=100GHz, etc
B	Number of Channels	4=4Ch, 8=8Ch, 16=16Ch.
C	Configuration	M=Mux, D=Demux
D	ITU Channel	21=Ch21.....25=Ch25....50=Ch50
E	Pigtail Type	B=250um bare fiber, 0.9=0.9mm loose tube, 2.0= 2.0mm loose tube, 3.0=3.0mm loose tube etc
F	Fiber Type	SMF-28e, SMF-28e XB, Others.
G	Connector Type	N=None, LC/UPC, LC/APC, SC/UPC, SC/APC, FC/UPC, FC/APC, etc
H	Package Size	L100×W80×H10mm, Others.
I	Fiber length	005=0.5m, 010=1.0m, etc
For example: DWDM –1-4-21222324-0.9-SMF-28e-FC/APC-100x80x10-010		