100GHz 16-Channel Dense Wavelength Division Multiplexer

Features

- 100GHz ITU Channel Spacing
- Low Insertion Loss
- Wide Pass Band
- High Channel Isolation
- High Stability and Reliability
- Epoxy Free Optical Path

Applications

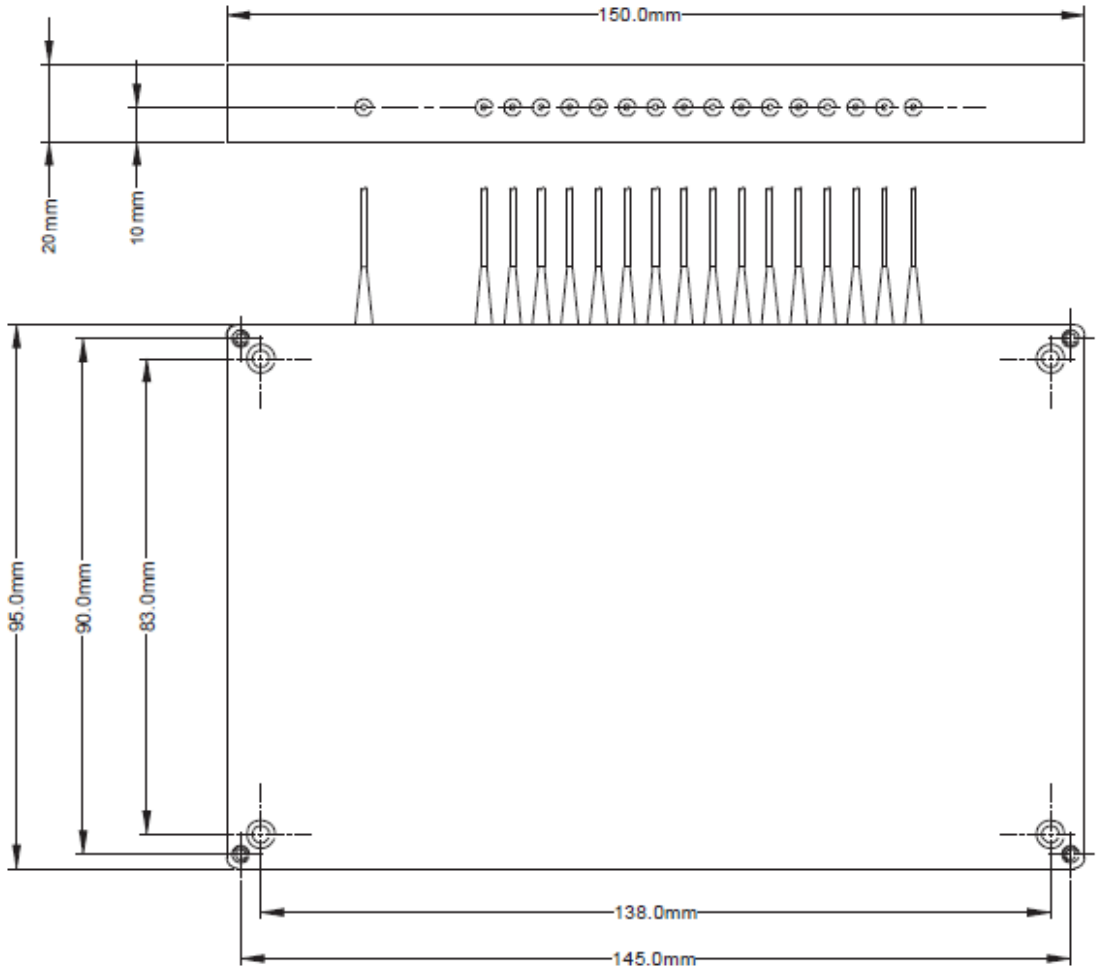
- Channel Add / Drop
- DWDM Network
- Wavelength Routing
- Fiber Optical Amplifier
- CATV Fiberoptic System

Performance Specifications:

Parameter		Unit	Spec	
			Mux (Add)	Demux (Drop)
Operating Wavelength		nm	ITU 100 GHz Grid	
Center Wavelength Accuracy		nm	± 0.05nm	
Minimum Channel Spacing		GHz	100GHz (0.8mm)	
Channel Passband (@-0.5dB bandwidth)		nm	≥ 0.22nm	
Insertion Loss	Add / Drop Ch.	dB	≤ 4.2dB	
	Express Ch.	dB	≤ 1.5dB	
Channel Ripple		dB	≤ 0.3dB	
Channel Isolation	Adjacent	dB	N/A	≥ 25dB
	Non-adjacent	dB	N/A	≥ 35dB
Insertion Loss Temperature Sensitivity		dB/°C	≤ 0.005dB/°C	
Wavelength Temperature Shifting		nm/°C	≤ 0.002nm/°C	
Polarization Dependent Loss		dB	≤ 0.10dB	
Polarization Mode Dispersion		ps	≤ 0.10ps	
Directivity		dB	≥ 50dB	
Return Loss		dB	≥ 45dB	
Optical Power		mW	≤ 300Mw	
Operating Temperature		°C	0 to +70°C	
Storage Temperature		°C	-40 to +85°C	
Package Dimensions		mm	L150mm x W95mm x H20mm	

Note: All values referenced are without connectors. With connector, IL increase 0.3dB, RL decrease 5dB.

Mechanical Dimensions:



Ordering Information:

S-DWDM	Channel Spacing	Number of Channel	Configuration	1 st ITU Channel	Pigtail Style	Fiber Length	Connector
	□	□□	□	□□□	□	□	□□
	1= 100GHz	16=16 Channel	M=Mux D=Demux	C21=1560.61 nm C22=1559.79 nm C23=1558.98 nm . . .	1= Bare Fiber 2= 900um tube 3=3mm Cable 4=2mm Cable	1=1m 2=2m	0=None 1=FC/APC 2=FC/PC 3=SC/APC 4=SC/PC 5=ST 6=LC/UPC 7=LC/APC

For Example: S-DWDM-1-16-D-C21-1-1-00