



# 100GHz 8 - Channel Dense Wavelength Division Multiplexer

AC Photonics' 100GHz Dense Wavelength Division Multiplexer (DWDM) utilizes thin film coating technology and proprietary design of non-flux metal bonding micro optics packaging to achieve optical add and drop at the ITU wavelengths. It provides ITU channel center wavelength, low insertion loss, high channel isolation, wide pass band, low temperature sensitivity and epoxy free optical path . It can be used for wavelength add/drop in telecommunication network system. All AC Photonics' products are Telcordia qualification tested.



## 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

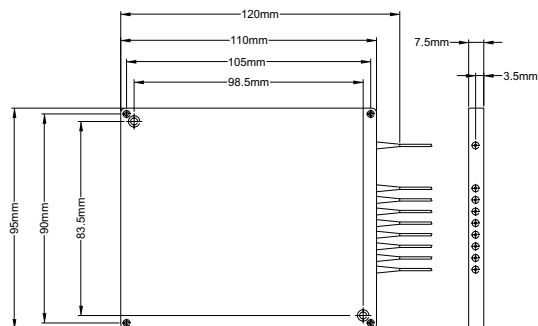
Parameter		MUX	DEMUX
Channel Wavelength (nm)		ITU 100 GHz Grid	
Center Wavelength Accuracy (nm)		$\pm 0.05$	
Minimum Channel Spacing (GHz)		100	
Channel Passband (@-0.5dB bandwidth) (nm)		$\geq 0.22$	
Insertion Loss (dB)		$\leq 3.2$	
Channel Uniformity (dB)(Optional)		$\leq 1.0$	
Channel Ripple (dB)		$\leq 0.3$	
Isolation @Add/Drop Channel (dB)	Adjacent	N/A	$\geq 25$
	Non-adjacent	N/A	$\geq 35$
Insertion Loss Temperature Sensitivity (dB/°C)		$\leq 0.003$	
Wavelength Temperature Shifting (nm/°C )		$\leq 0.002$	
Polarization Dependent Loss (dB)		$\leq 0.10$	
Polarization Mode Dispersion (ps)		$\leq 0.1$	
Directivity (dB)		$\geq 50$	
Return Loss (dB)		$\geq 45$	
Power Handling (mW)		300	
Operating Temperature (°C )		0 ~+70	
Storage Temperature (°C )		-40 ~+85	
Dimensions (mm)		L110 xW95 x H7.5	

Specifications may change without notice.

## Ordering Information

DWDM	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
	Channel Spacing	Number of Channel	Configuration	1st ITU Channel	Pigtail Style	Fiber Length	In/Out Connector
	1=100GHz	08=8 Channel	M=MUX D=DEMUX	C21=1560.61nm C22=1559.79nm C23=1558.98nm	1=Bare Fiber 2=900um Jacket 3=3mm Cable	1=1m 2=2m	0=None 1=FC/APC 2=FC/PC 3=SC/APC 4=SC/PC 5=ST 6=LC

## Package Dimensions



## Spectral Chart

