

# 100G Mux/Demux Module

## Features:

- Low Insertion Loss
- Excellent Channel Isolation
- Epoxy-Free in Optical Path
- Telcordia Compliant
- 4, 8, 16, 32 Channels Configuration
- RoHS Compliant

## Applications:

- DWDM System
- CATV System



## Specifications<sup>1, 2</sup>:

Parameter	Unit	Grade <sup>2</sup> A <sup>2</sup>				
Channel Spacing		100GHz				
Channel Number	Ch	4	8	16	32	
Central Wavelength <sup>3</sup> (l c)	nm	1529.55~1560.61 ITU Grid				
Passband	Min.	nm ITU+/-0.11				
Isolation	Adjacent Channel	Min.	28			
	Non-adjacent Channel	Min.	40			
Insertion Loss	Max.	dB	2.0	2.8	4.0	5.0
Ripple in Passband	Max.	dB	0.5			
Directivity	Min.	dB	50			
Polarization Dependent Loss	Max.	dB	0.15	0.15	0.20	0.30
Polarization Mode Dispersion <sup>4</sup>	Max.	ps	0.20			
Return Loss	Min.	dB	45			
Fiber Type	Corning SMF-28e with 900mm buffer					
Fiber Length	Min.	m	1.0+/-0.1			
Power Handling	Max.	mW	500			
Operating Temperature		°C	0~70			
Storage Temperature		°C	-40~85			
Box Package	Length	mm	120	120	120	150
	Width	mm	80	80	80	110
	Height	mm	9	9	15	23
LGX Package <sup>5</sup>			1U	2U	4U	8U
19 <sup>2</sup> Rackmount Package <sup>5</sup>			1U	1U	1U	1U

1. All specifications include the effect of operating temperature and all states of polarization.
2. Values referenced without connectors and insertion loss for a connector-pair is 0.20dB(typ.) and 0.30dB(max.).
3. L-band DWDM Module is available upon request.
4. Fiber length includes rubber boot and excludes the connector.
5. LGX and 19<sup>2</sup> Rack Mount Package are designed according to industry standard.

### Dimension:

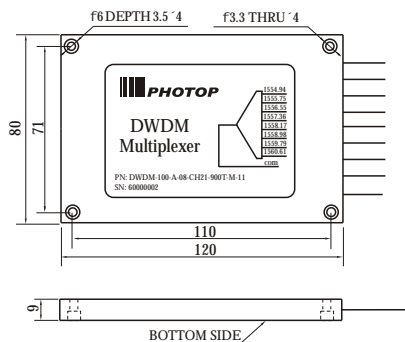


Figure 1. 8 Channel DWDM Module

### Order Information:

DWDM - 100 - X - XX - XXXX - XXXX - X - XX  
                   A      B      C          D      E      F

A	Grade	A=Grade <sup>2</sup> A <sup>2</sup>
		S=Custom
B	Channel Number	04=4 channel
		08=8 channel
		16=16 channel
		32=32 channel
C	Initial Channel	CH21=21st channel
		CH59=59th channel
D	Fiber Type <sup>1</sup>	900L=900mm loose tube
		900T=900mm tight buffer
E	Mux/Demux	M=Mux
		D=Demux
		C=Mux & Demux <sup>2</sup>
F	Connector	NN=W/O connector
		XY=With connector <sup>3</sup>

1. 2mm or 3mm yellow cable is available upon request.
2. Please specify the function sketch and outline drawing for Mux & Demux integration package when ordering.
3. Please specify the type of connector as below when ordering.

Mechanical Type	Other	SC	FC	ST	MU	LC
X	0	1	2	3	4	5
Physical Contact Type	Other	PC	UPC	APC		
Y	0	1	2	3		