

# MCWMM Mini

## CWDM Mux/Demux Module

### Features:

- Mini Size
- High Reliability
- Low Insertion Loss and Better Uniformity
- Ultra High Thermal Stability
- Epoxy-Free in Optical Path
- RoHS Compliant

### Applications:

- CWDM System
- CATV System

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



Parameter			Unit					
Channel Number			Ch	4	8	8(+E1)	8(+E2)	
Central Wavelength <sup>3</sup> (l c)			nm	1270, 1290...1610 or 1271, 1291...1611				
Passband	Channels	Min.	nm	1 c +/-6.5				
	Upgrade port	Min.		1310 +/-50		1260~1457		
Isolation	Mux	Adjacent Channel	Min.	15				
		Non-adjacent Channel	Min.	15				
	Demux	Adjacent Channel	Min.	dB	30			
		Non-adjacent Channel	Min.	40				
	Upgrade port			15				
Insertion Loss	Channels	Max.	dB	1.0	1.5	1.6	1.8	
	Upgrade port	Max.		1.2 1.2				
Ripple in Passband		Max.	dB	0.3				
Directivity		Min.	dB	50				
Polarization Dependent Loss		Max.	dB	0.15				
Polarization Mode Dispersion		Max.	ps	0.10(GD)				
Return Loss		Min.	dB	45				
Fiber Type	Corning SMF-28 with 900mm loose tube							
Connector Type	TBD							
Fiber Length <sup>3</sup>			m	1.0 +/-0.1				
Power Handling		Max.	mW	500				
Operating Temperature			°C	-10~70				
Storage Temperature			°C	-40~85				
Package Dimension			mm	(L)55 (W)35 (H)8				

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. Fiber length includes rubber boot and excludes the connector.

Dimension:

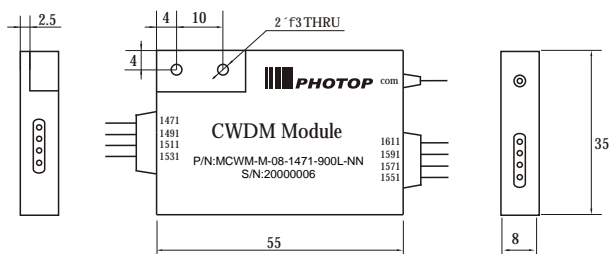


Figure 1. 8 Channel Mini CWDM Module

Order Information:

MCWM - XX - XX - XXXX - XXXX - X - XX  
A B C D E F

A	Express Ports	M0=Without any express port
		E1=With 1310 (+/-50nm) express port
		E2=With express port (1260~1458nm)
		E5=With 5% monitor port <sup>1</sup>
		EM=With 1310 and monitor port <sup>1</sup>
		S0=Custom
B	Channel Number	XX=XX channels
C	Initial Channel	1470= Central wavelength 1470nm...
		1471= Central wavelength 1471nm...
D	Fiber Type	250S=Corning SMF-28e
		900L= Corning SMF-28e with 900mm loose tube
E	Mux/Demux	M=Mux
		D=Demux
F	Connector	NN=W/O connector
		XY=With connector <sup>2</sup>

- Other coupling ratios are also available.
- 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		