Dual-Axis Polarization-Maintaining Wavelength Division Multiplexer Module 8 Channels 100GHz FC/UPC

4×Ø3.0

160
152
152
160

Height: 10
Unit: mm
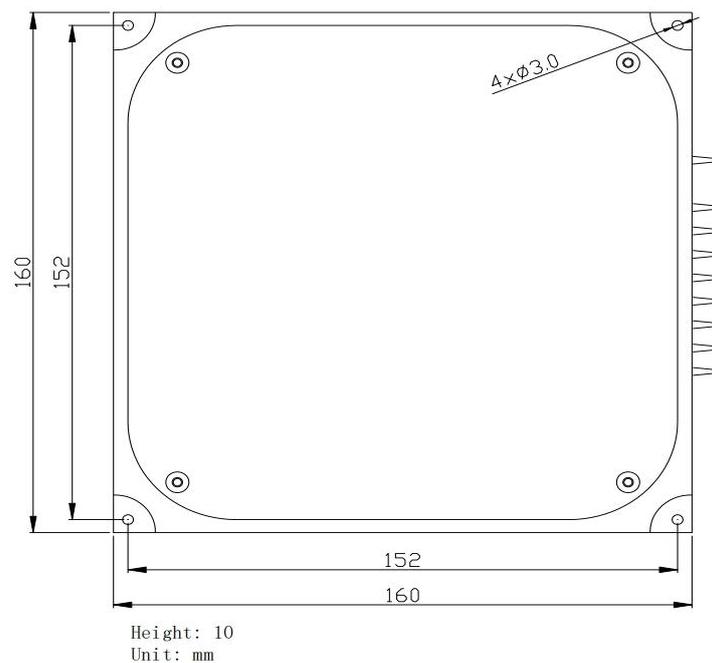
● Product Description

Dual-axis polarization-maintaining wavelength division multiplexer module

4-16 channels

● Product features

High number of channels; Narrow interval; Polarization maintaining fiber compatibility; High isolation level; Low insertion loss
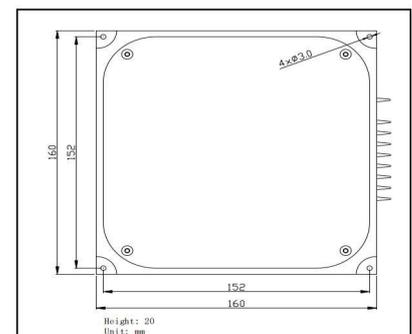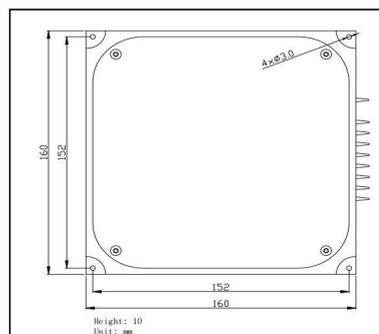
● Part Number

MP-WDM-8-100-PU

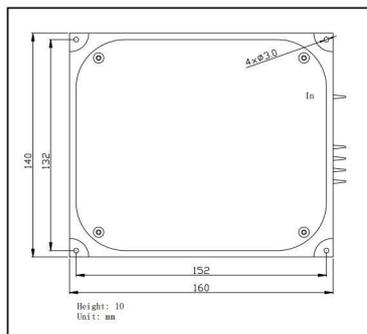## ● Application area

High speed optical communication | Data center | Fiber optic network testing | Quantum communication | Research grade experiments

● Core parameters

Aisle	Filter Type	Connector
8-channels	100GHz	FC/UPC

● Dimension Drawing

● General Parameters

Parameter		Unit	Values		
Filter Type		-	100GHz (±0.11nm), or 200GHz (±0.25 nm)		
Aisle		nm	4-channels	8-channels	16-channels
Insertion loss		dB	≤2.2	≤3.2	≤4.5
Passband flatness		dB	≤0.5		
Channel isolation (Mux)		dB	NA		
Channel isolation (Demux)	Adjacent	dB	≥25		
	Non-adjacent	dB	≥40		
Polarization extinction ratio		dB	≥18	≥17	≥16
Directionality		dB	≥50		
Return loss		dB	≥45		
Central wavelength stability		nm/℃	≤0.002		
Thermal stability		dB/℃	≤0.005	≤0.006	≤0.008
Max. optical power (CW, Total)		mW	500		
Tensile load		N	5		

Fiber type	-	PM Panda Fiber
Operating temperature	°C	-5 to +70
Storage temperature	°C	-40 to +85
Package size	mm	160x140x10 for 4 Channels, or Specify
		160x160x10 for 8 Channels, or Specify
		160x160x20 for 16 Channels, or Specify

*The above specifications apply to modules without connectors.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, and ER will be 2dB lower.

*PM fiber and connector keys are aligned with the slow axis.

Model Description

MP-WDM-①-②-③-④④-⑤-⑥-⑦⑦-⑧-⑨⑨

①: Model Type

M - MUX

D - DEMUX

②: Number of Channels

4 - 4 Channels

8 - 8 Channels

16 - 16 Channels

③: Channel Spacing

1 - 100 GHz

2 - 200 GHz

④④: First ITU Grid

XX - First ITU Channel

⑤: Connector Type

1A- FC/UPC

2A - FC/APC

3D - SC/UPC

4D - SC/APC

N - None

S - Specify

⑥: **Fiber Jacket Type**

B - Bare Fiber

C - 900um Loose tube (Red)

D - 900um Loose tube (Blue)

S - Specify

⑦⑦: **Fiber Type**

2A - PM1550 Fiber

S - Specify

⑧: **Fiber Length**

0.8 - 0.8m

S - Specify

⑨⑨: **Package Dimensions**

67 - 160x140x10mm

68 - 160x160x10mm

76 - 160x160x20mm

S - Specify