Polarization Maintaining Fused WDM

I&Optics' polarization maintaining fused WDM can divide two different wavelgnths into two output ports or multiplex two different wavelengths into one same output port with very low loss. It features low insertion loss, high extinction ratio, high wavelength isolation and flat band property. It can be used in lasers, Telecom, sensors, Instruments, testing systems and R&D.

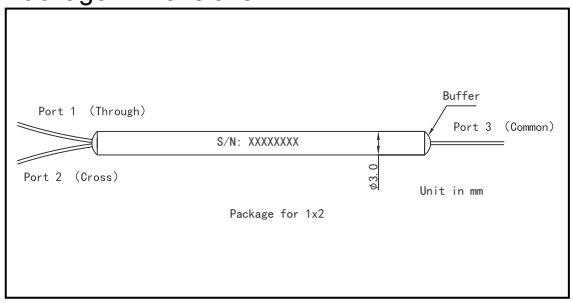
Specification

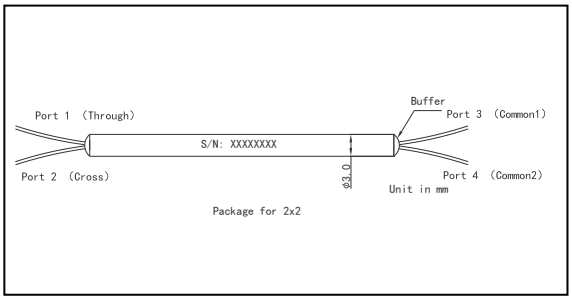
Parameter	Test Condition	Unit	Value	
Port Configuration	-	-	1x2	2x2
Through Band Wavelength	Port 1 to Port 3, Port 2 to Port 4	nm	976+/-5	
Cross Band Wavelength	Port 1 to Port 4, Port 2 to Port 3	nm	1064+/-5	
Max. Through Band IL	Port 1 to Port 3, Port 2 to Port 4	dB	0.5, Typ. 0.35	
Max. Cross Band IL	Port 1 to Port 4, Port 2 to Port 3	dB	0.5, Typ. 0.35	
Min. Extinction Ratio	at 23℃, only for PM Fiber Port, at Slow or Fast Axis	dB	17, Typ. 19	
Min. Band Isolation	-	dB	13, Typ. 15	
Max. Thermal Stabiblity	-	dB/℃	0.005	
Min. Directivity	Port 1 to Port 2 (1x2) and Port 3 to Port 4 (2x2)	dB	55	
Min. Return Loss	-	dB	55	
Max. Power Handling Rate	Continuous Wave, Total Power	mW	2000 or Specify	
Fiber Type	-	-	HI 1060 or PM 980 Panda Fiber or Specify	
Max. Fiber Tensile Load	-	N	5	
Operating Temperature	-	℃	-5 to 70	
Storage Temperature	-	℃	-40 to 85	

Above values are for device without connectors. For device with connectors, IL will be 0.3dB higher, ER will be 2dB lower, and return loss will 5dB lower.

The default alignment of working polarization and connector key is to slow axis of fiber. Special requirement please call.

Package Dimensions





Package dimensions will be Dia. 3.0 x 76mm for bare fiber and Dia. 3.0 x 92mm for 900um loose tube. Special Request is available.

Ordering Informations

PMWDM-①-②-③-④-⑤-⑥-⑦-⑧

① - Through / Cross Wavelength
9806 - 976nm T/1064nm C
SSSS - Specify

② - Port Configuration
1 - 1x2
2 - 2x2

③ - Fiber Type on Port 2/4
1 - HI 1060 Fiber
2 - PM 980 Panda Fiber

④ - Connector Type on port 1/2/3/4
1 - FC/UPC
2 - FC/APC
3 - SC/UPC
4 - SC/APC

⑤ - Fiber Jacket on Port 1/2/3/4
B - Bare Fiber
L - 900um Loose Tube

⑥ - Fiber Length
0.8 - 0.8m