

## 980/1550nm Fused Type PM WDM Coupler (PMWDMC)

### Features

- Low Insertion Loss
- High Isolation & High ER
- Telcordia GR-1221 Compliant
- Both Axis Working

### Application

- PMF Amplifier
- Testing Equipment
- Fiber Laser
- Monitoring in Coherent System

### Specifications



Parameters	Unit	980/1550	
Center Wavelength <sup>[1]</sup>	nm	980	1550
Operating Wavelength Bandwidth	nm	±10	±15
Max Insertion Loss (IL) <sup>[2]</sup>	dB	0.7	0.7
Min Isolation (IS) <sup>[3]</sup>	dB	20	20
Polarization Extinction Ratio (PER)	dB	18	18
Fiber Type	-	PM980, PM1550	PM1550
Fiber Type at Com Port	-	PM1550	
Return Loss (RL) <sup>[4]</sup>	dB	≥50	
Cross Talk (CR) <sup>[5]</sup>	dB	≥50	
Max Power Handling CW <sup>[6]</sup>	W	1W ( with connector), 4W (spliced)	
Operating Temperature	°C	-40 ~ +85	
Storage Temperature	°C	-40 ~ +85	

[1] Center Wavelength can be customized.

[2] Test at room temperature without connectors. With connectors, IL+0.3dB, PER-2dB, RL-5dB.

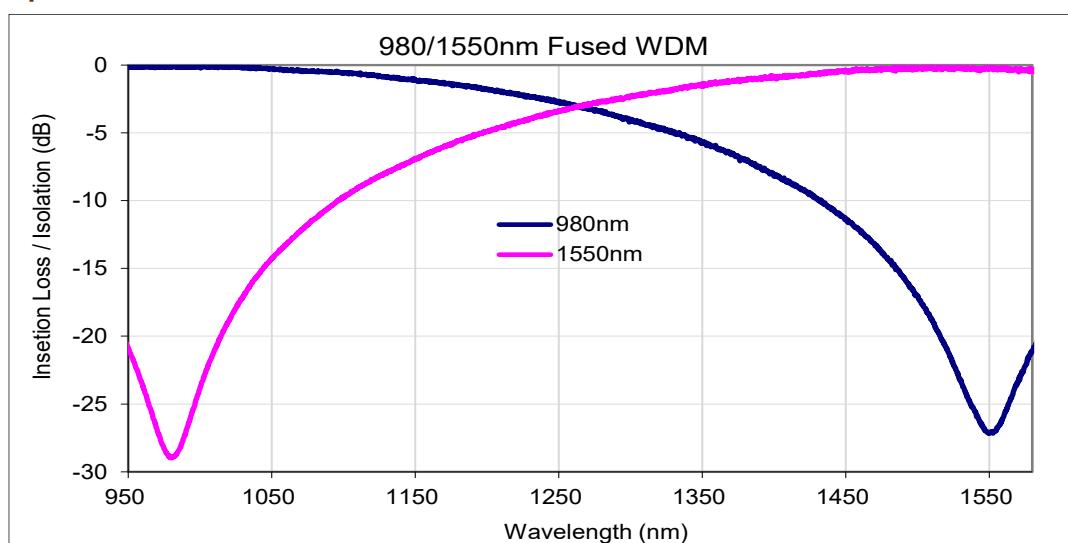
[3] Test at center wavelength.

[4] When test RL, coil all other port fibers 3-5 turns around a 10-30mm diameter loop, this prevents back reflections into test port, which would significantly lower RL.

[5] CR=10 \* log<sub>10</sub> (P<sub>port λ1</sub>+P<sub>port λ2</sub>), P=power in mW, test wavelength can be either wavelength of the two, Port λ2 used as Input Port.

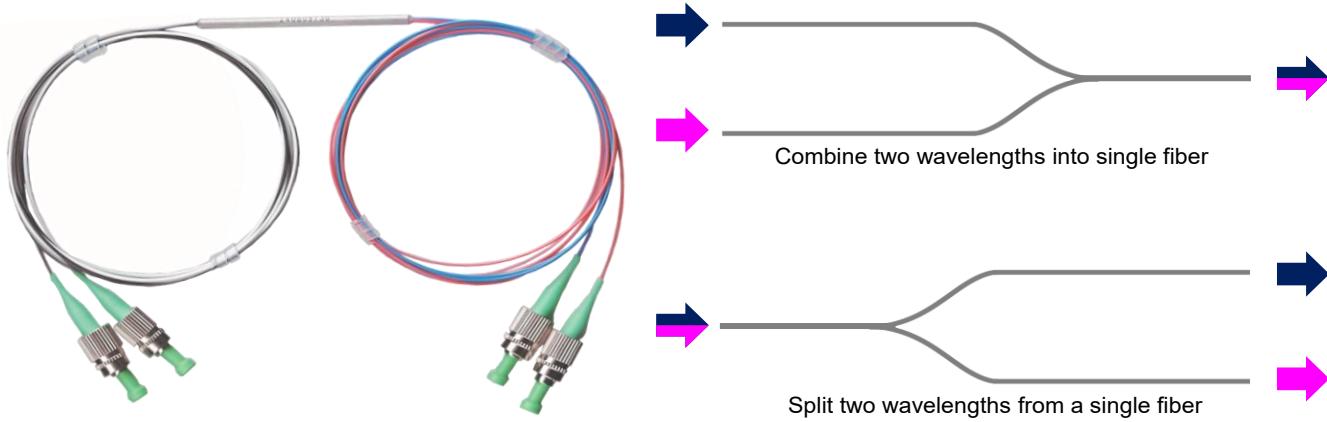
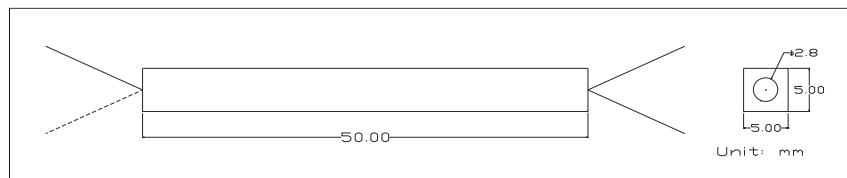
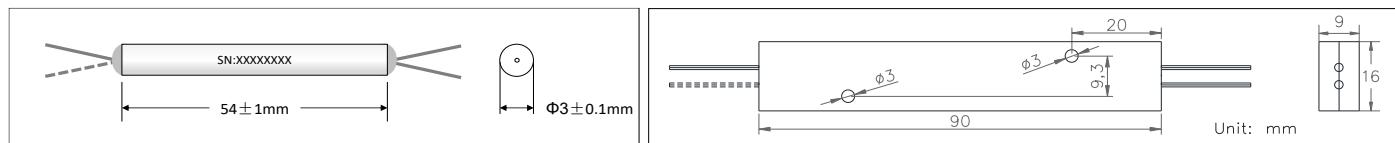
[6] Max power is for total power of longer wavelength+shorter wavelength. Higher power available on request.

### Typical Spectrum



### Package Information

Port Configuration	1x2 or 2x2		
Fiber Length	1m, others on request		
Pigtail Type	250 $\mu$ m Bare Fiber	900 $\mu$ m Loose Tube	2mm/3mm Loose Cable
Dimensions(mm)	$\varphi 3 \times 54$ , 5x5x50	$\varphi 3 \times 54$	90x16x9
Approx Weight (g)	30	45	60



### Ordering Information

PMWDMC- ①①①-②②②②②②-③③③-④④④-⑤-⑥⑥-⑦⑦⑦⑦

①	Port Type	1x2; 2x2;
②	Wavelength	980/1550;
③	Pigtail Type	250=250 $\mu$ m Fiber; 900=900 $\mu$ m Loose Tube; 2000=2mm Loose Cable; 3000=3mm Loose Cable;
④	Fiber Type @ 980 Port	P98=P980 Fiber; P15=P1550 Fiber;
⑤	Fiber Length	1=1m; XX=other;
⑥	Connector	NE=None; FA=FC/APC; FC=FC/UPC; SA=SC/APC; SC=SC/UPC; LC=LC/UPC; XX=Others;
⑦	Package	3x54; 90x16x9; 5x5x50;