

1390/2000nm Fused Type SM/PM WDM Coupler (WDMC/PMWDMC)

Features

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

Application

SMF/PMF Amplifier
Testing Equipment
Fiber Laser
Monitoring in Coherent System

Specifications



Parameters	Unit	1390/2000	
Center Wavelength ^[1]	nm	1390	2000
Operating Wavelength Bandwidth	nm	±5	±5
Max Insertion Loss (IL) ^[2]	dB	0.8	0.7
Min Isolation (IS) ^[3]	dB	15	17
Polarization Extinction Ratio (PER)	dB	18	18
Fiber Type (PMF)		PM1300	PM1950
Fiber Type (SMF)		SMF-28e	SM1950
Fiber Type at Com Port (PMF)		PM1950	
Fiber Type at Com Port (SMF)		SM1950	
Return Loss (RL) ^[4]	dB	≥50	
Cross Talk (CR) ^[5]	dB	≥50	
Max Power Handling CW ^[6]	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.

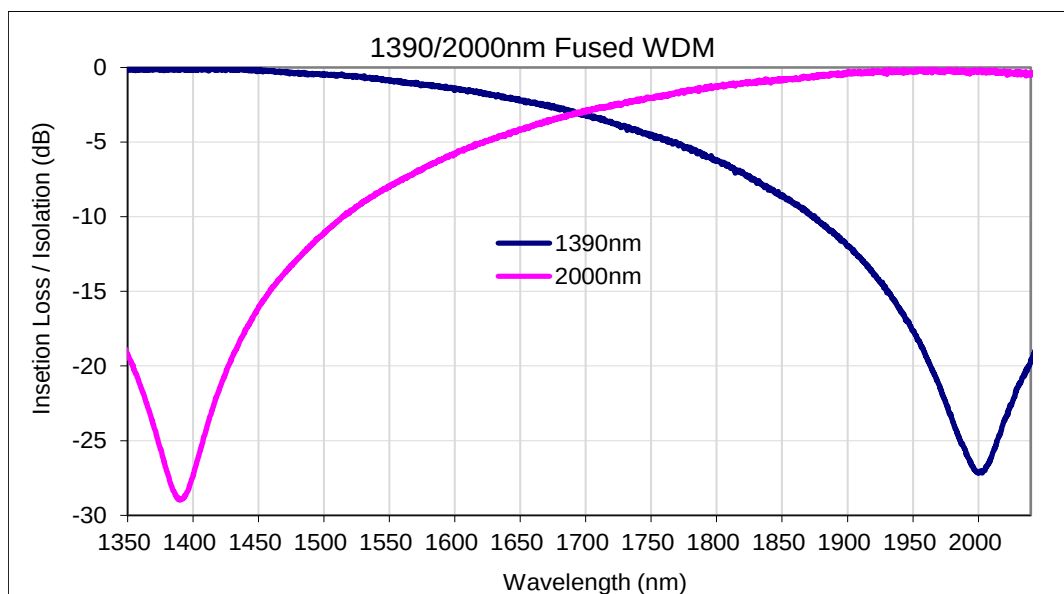
^[3] Test at center wavelength.

^[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.

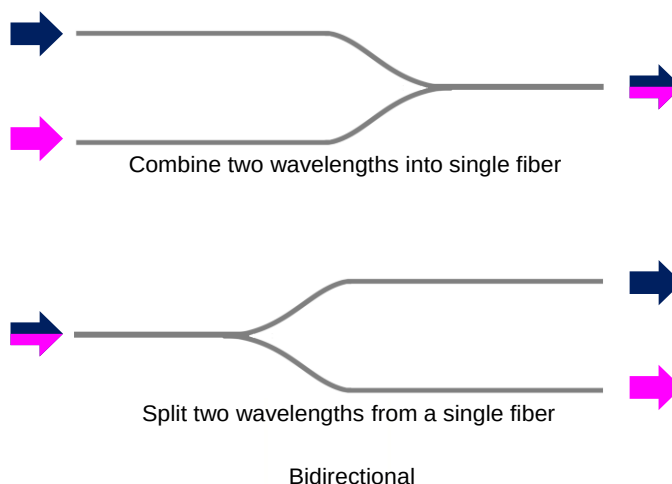
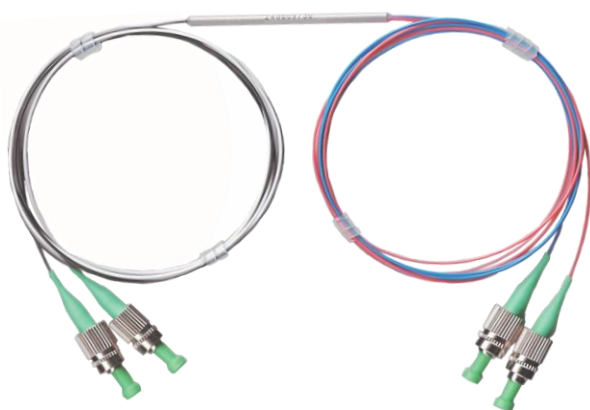
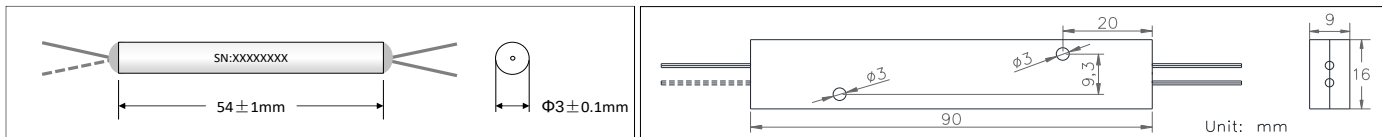
^[5] $CR=10 * \log_{10} (P_{port \lambda 1} \div P_{port \lambda 2})$, P=power in mW, test wavelength can be either wavelength of the two,

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

Typical Spectrum



Port Configuration	1x2 or 2x2		
Fiber Length	1m, others on request		
Pigtail Type	250µm Bare Fiber	900µm Loose Tube	2mm/3mm Loose Cable
Dimensions(mm)	φ3x54	φ3x54	90x16x9
Approx Weight (g)	30	45	60



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PMWDMC-

①	Port Type	1x2; 2x2;
②	Wavelength	1390/2000;
③	Pigtail Type	250=250μm Fiber; 900=900μm Loose Tube; 2000=2mm Loose Cable; 3000=3mm Loose Cable;
④	Fiber Type	1/S9/S9=SMF-28e/SM1950/SM1950; P13/P19/P19=PM1300/PM1950/PM1950;
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;