

980/1550nm 980/1590nm Fused Wavelength Division Multiplexer Coupler (WDMC)



Specifications

Parameters	Unit	980/1550, 980/1590 WDMC		980/1550nm Mixed Fiber WDMC	
Center Wavelength ^[1]	nm	980/1550 or 980/1590		980/1550	
Operating Wavelength Bandwidth	nm	±10/20		±15	
Grade	dB	P	A	P	A
Insertion Loss (IL) ^[2]	dB	≤0.15	≤0.25	≤0.25	≤0.35
Isolation (IS) ^[3]	dB	≥20	≥18	≥20	≥18
PDL	dB	≤0.05	≤0.1	≤0.05	≤0.1
Fiber Type	-	HI1060Flex or HI1060		HI1060Flex & SMF-28e	
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	℃	-20 ~ +70			
Storage Temperature	℃	-40 ~ +85			

^[1] Center Wavelength can be customized.

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

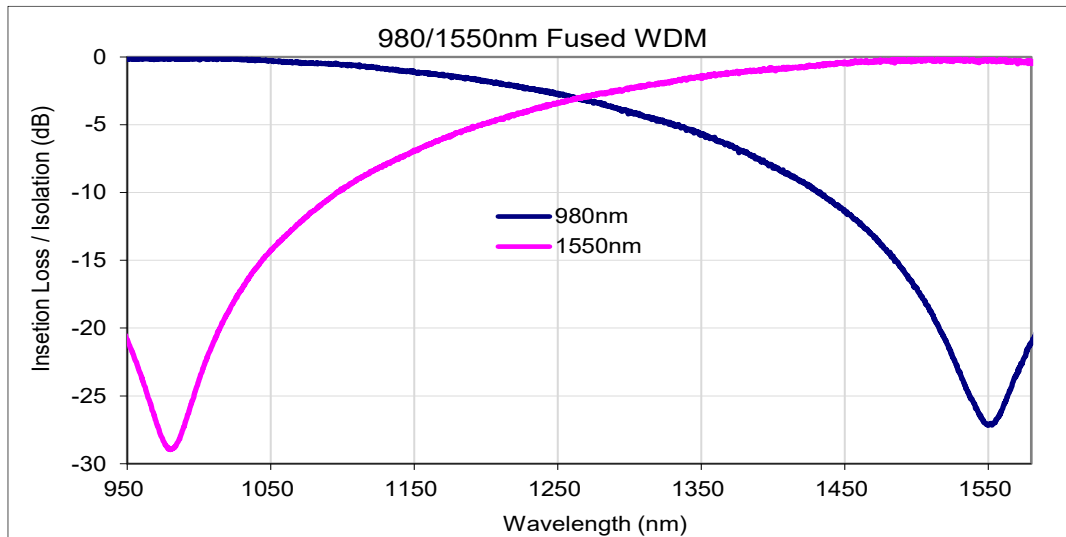
^[3] Test at center wavelength.

^[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, port $\lambda 2$ used as input port.

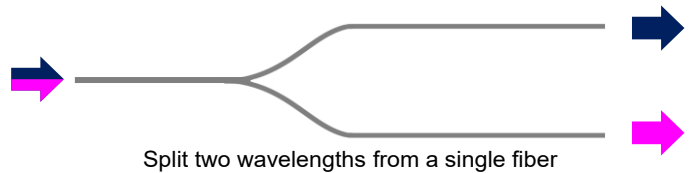
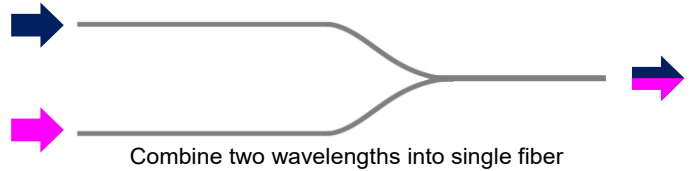
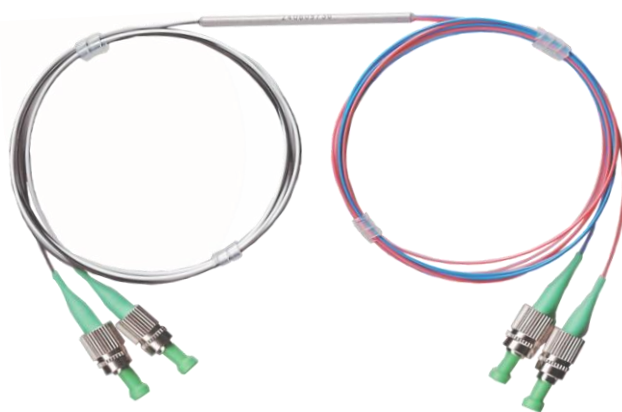
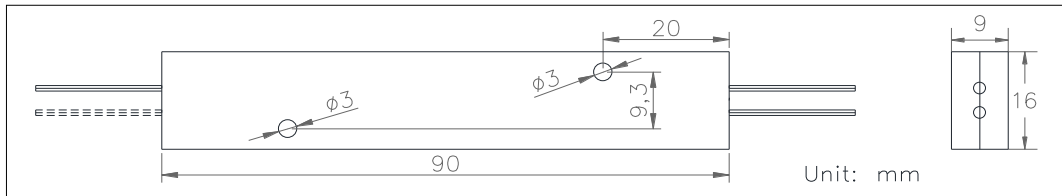
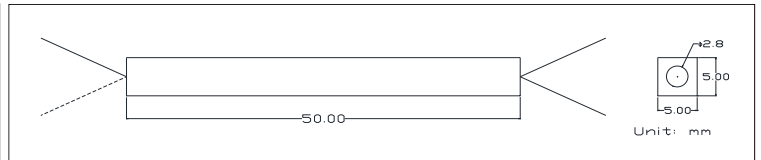
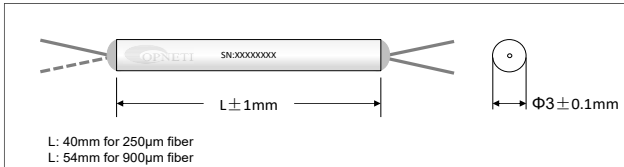
^[6] Max power is for total power of longer wavelength+shorter wavelength. Higher power available on request.

Typical Spectrum



Package Information

Port Configuration	1x2 or 2x2		
Fiber Length	1m, others on request		
Pigtail Type	250μm Bare Fiber	900μm Loose Tube	2mm/3mm Loose Cable
Dimensions(mm)	φ3x40, φ3x54, 5x5x50	φ3x54	90x16x9
Approx Weight (g)	30/45/55	45	60



Bidirectional

Ordering Information

WDMC- ①-②②②②②②②②②③③③③④④④④⑤⑥⑦⑦⑧⑧⑧⑧⑧

①	Grade	P=Grade P; A=Grade A;
②	Wavelength	980/1550; 980/1590;
③	Port	1x2; 2x2;
④	Pigtail Type	250=250μm Fiber; 900=900μm Loose Tube; 2mm=2mm loose tube; 3mm=3mm Loose Tube;
⑤	Fiber Type	1=SMF-28e; 4=HI1060; 7X=HI1060Flex; 1/7X=SMF-28e and HI1060Flex Mix; X=Other;
⑥	Length	1=1m; X=Other;
⑦	Connector	NE=None; FA=FC/APC; FC=FC/UPC; SA=SC/APC; SC=SC/UPC; LC=LC/UPC; XX=Others;
⑧	Package	3x40; 3x54; 5x5x50; 90x16x9;