

Mini Size Fused Wavelength Division Multiplexer Coupler (WDMC)

Features

Low IL & Low PDL
Mini Size
High Isolation
High Stability and Reliability

Application

EDFA Modules
WDM Systems
Testing Instruments
Optical Fiber Sensors



Specifications

Parameters	Unit	980/1550,980/1590 WDMC		1310/1550 WDMC	
Center Wavelength ^[1]	nm	980/1550 or 980/1590		1310/1550	
Operating Bandwidth	nm	±10/20		±15	
Grade	dB	P	A	P	A
Insertion Loss (IL) ^[2]	dB	≤0.25	≤0.35	≤0.25	≤0.35
Isolation (IS) ^[3]	dB	≥17	≥16	≥20	≥18
PDL	dB	≤0.05	≤0.1	≤0.05	≤0.1
Fiber Type	-	HI1060Flex or HI1060		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.

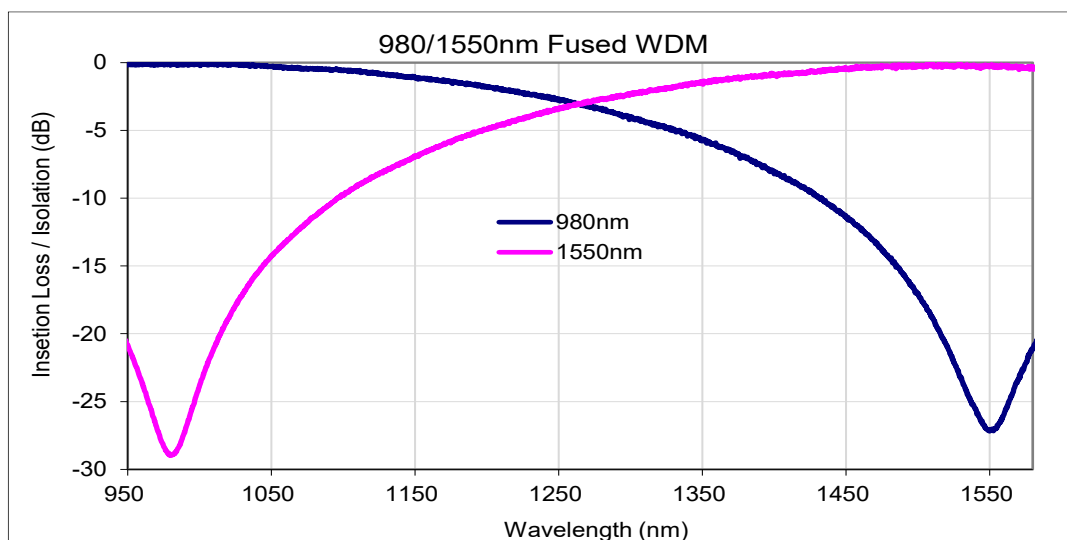
^[3] Test at center wavelength.

^[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.

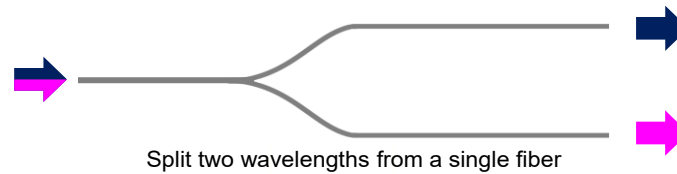
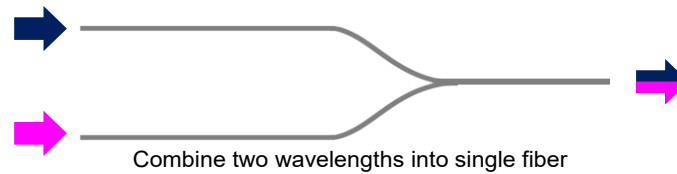
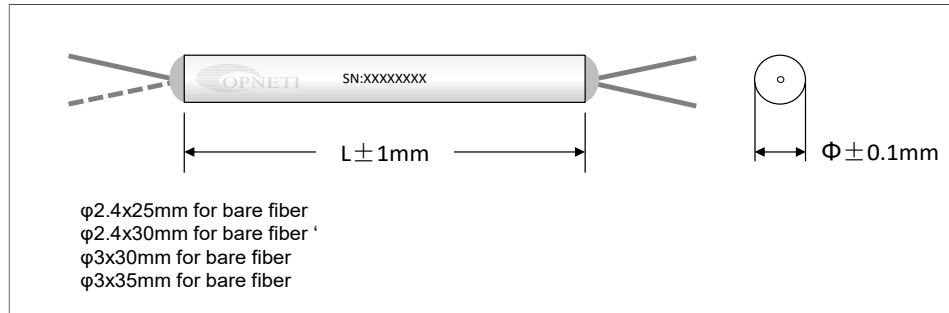
^[6] Max power is for total power of longer wavelength+shorter wavelength. Higher power available on request.

Typical Spectrum



Package Information

Configuration	1x2 or 2x2
Fiber Length	1m, others on request
Pigtail Type	250µm Bare Fiber
Dimensions(mm)	φ2.4x25; φ2.4x30; φ3x30; φ3x35



Bidirectional

Ordering Information

WDMC- ①-②②②②②②②②③③③④④④④⑤⑥⑦⑦⑧⑧⑧⑧⑧⑧⑧

①	Grade	P=Grade P; A=Grade A;
②	Wavelength	980/1550; 980/1590; 1310/1550;
③	Port	1x2; 2x2;
④	Pigtail Type	250=250µm Fiber;
⑤	Fiber Type	1=SMF-28e; 4=HI1060; 7X=HI1060Flex;
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	2.4x25; 2.4x30; 3x30; 3x35;