

1030/1550nm, 1030/1590nm Fused Wavelength Division Multiplexer Coupler (WDMC)



Specifications

Parameters	Unit	1030/1550nm, 1030/1590nm WDMC
Center Wavelength ^[1]	nm	1030/1550, 1030/1590
Operating Wavelength Bandwidth	nm	±15
Grade	dB	P
Insertion Loss (IL) ^[2]	dB	≤0.25
Isolation (IS) ^[3]	dB	≥20
PDL	dB	≤0.05
Fiber Type	-	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.

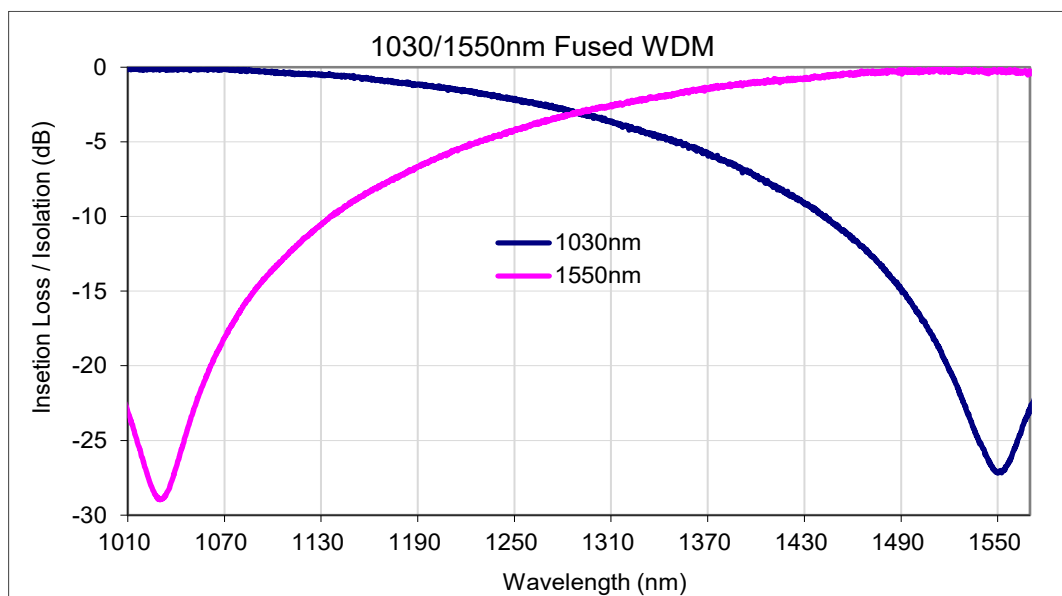
^[3] Test at center wavelength.

^[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.

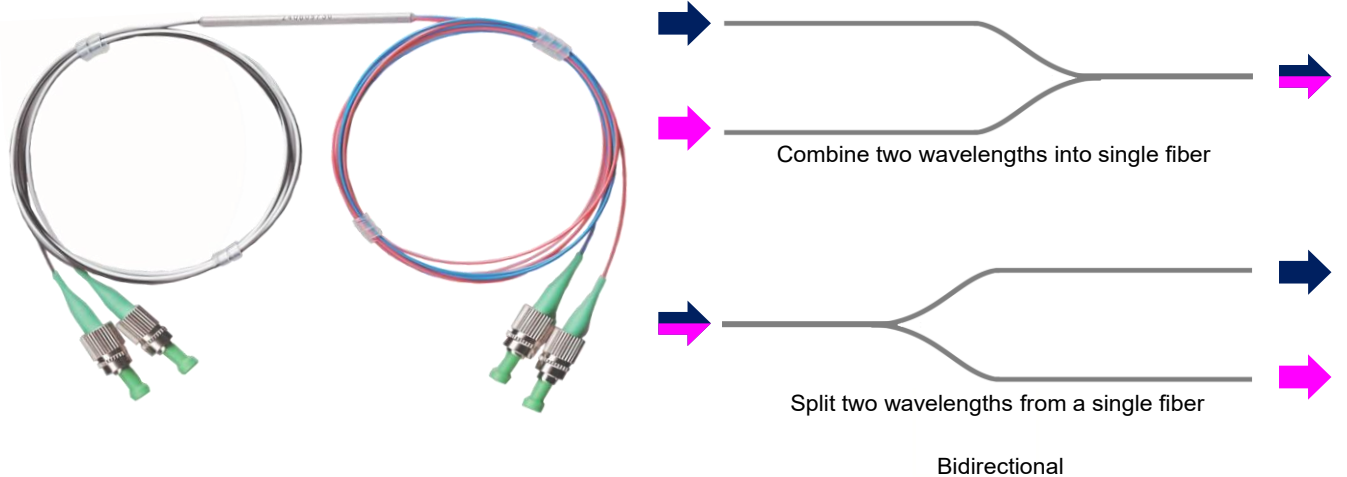
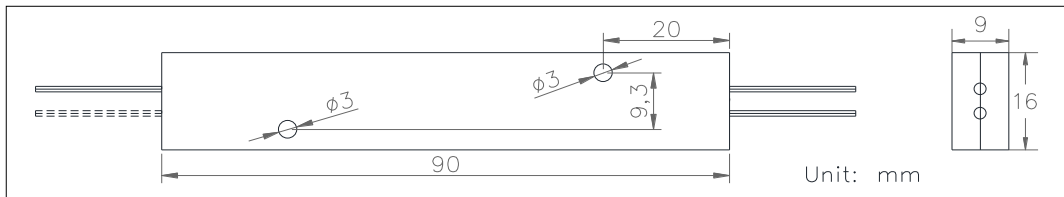
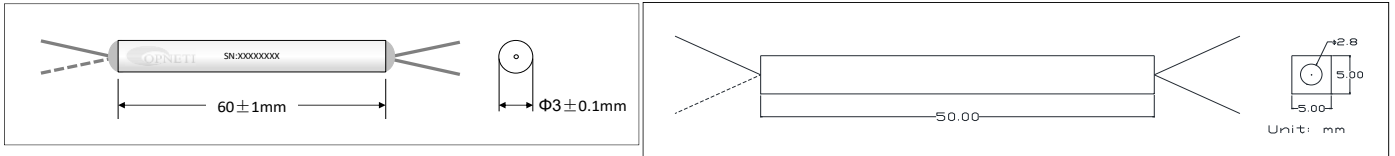
^[6] Max power is for total power of longer wavelength+shorter wavelength. Higher power available on request.

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)	φ3x60	φ3x60	90x16x9
Approx Weight (g)	40	45	60



Ordering Information

WDMC- ①-②②②②②②②②②③③③④④④⑤⑥⑦⑦⑧⑧⑧⑧

①	Grade	P=Grade P;
②	Wavelength	1030/1550; 1030/1590;
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; 1/7=SMF-28e and HI1060 Mix; 1/7X=SMF-28e and HI1060Flex Mix;
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;