1480/1550nm Wavelength Division Multiplexer Coupler (WDMC)

Specifications

Parameters	Unit	1480/1550 WDMC, 1480/1590 WDMC	
Center Wavelength [1]	nm	1480/1550,1480/1590	
Operating Wavelength Bandwidth	nm	±15	
Grade	dB	P	A
Insertion Loss (IL) [2]	dB	≤0.2	≤0.3
Isolation (IS) [3]	dB	≥17	≥16
PDL	dB	≤0.05	≤0.1
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, PER-2dB, RL-5dB.

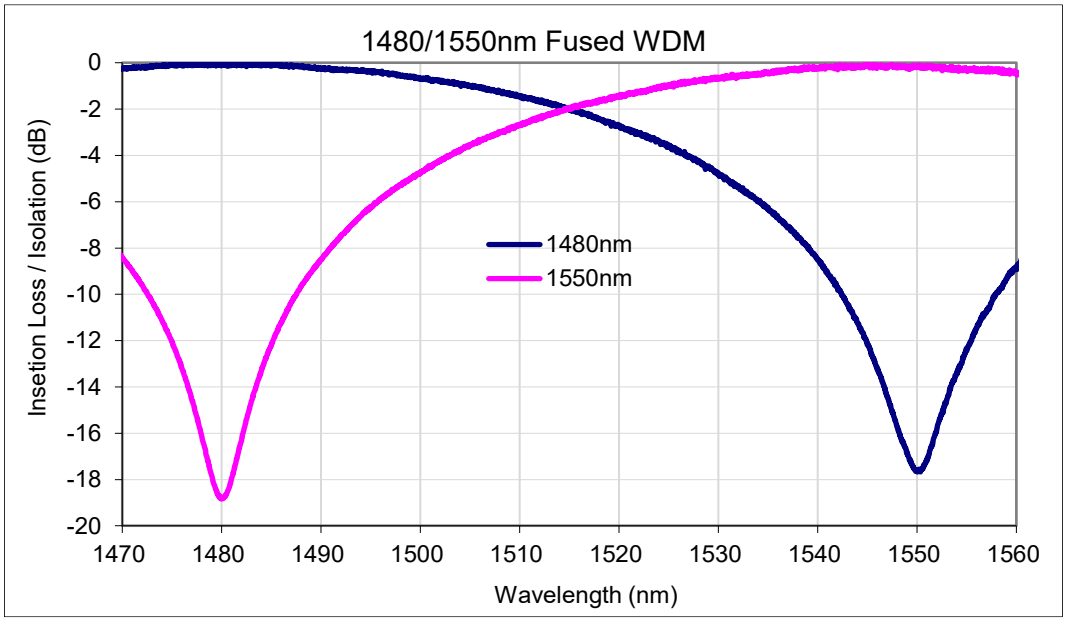
[3] Test at center wavelength.

[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 * $\log_{10}$ ($P_{port\ \lambda1} \div P_{port\ \lambda2}$), P=power in mW, test wavelength can be either wavelength of the two, Port λ2 used as Input Port

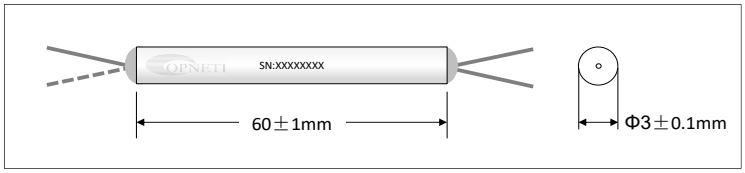
[6] Max power is for total power of longer wavelength+shorter wavelength. Higher power available on request.

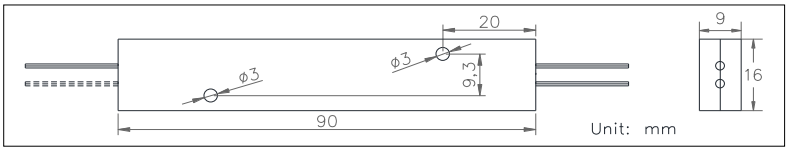
Typical Spectrum

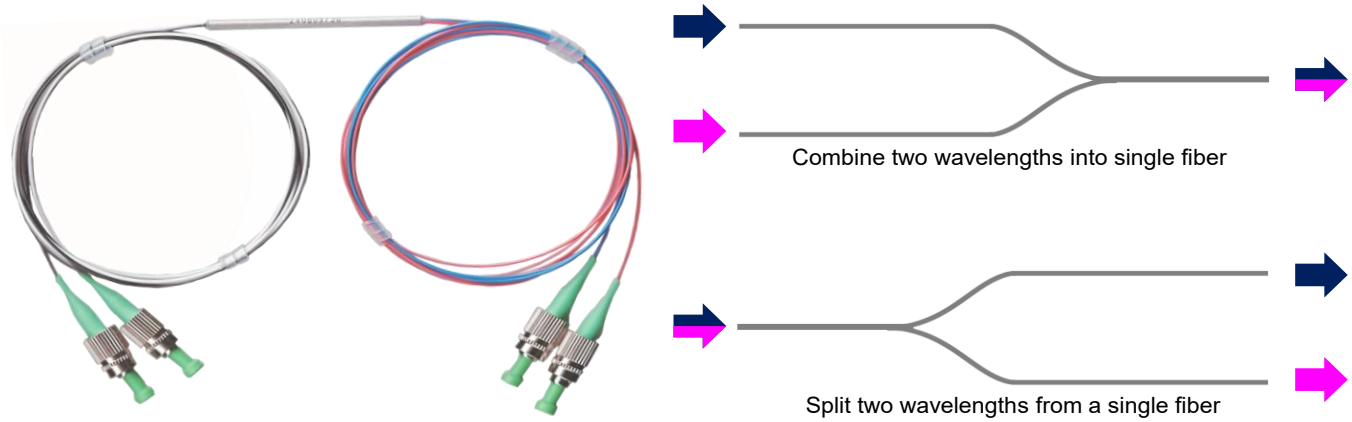


Package Information

Configuration	1x2 or 2x2		
Fiber Length	1m, others on request		
Fiber Type	SMF-28e or Others		
Pigtail type	250μm Bare Fiber	900μm Loose Tube	2mm/3mm Loose Cable
Dimensions (mm)	φ3x60	φ3x60	90x16x9







Ordering Information

WDMC- ①-②②②②②②②②-③③③-④④④-⑤-⑥-⑦⑦-⑧⑧⑧⑧

①	Grade	P=Grade P; A=Grade A;
②	Wavelength	1480/1550; 1480/1590;
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;
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	3x60; 90x16x9;