



FINAL INSPECTION REPORT

1x2 Wavelength Combiner / Splitter (WDM)

Item #: WD1520AB
SN: T029376

Center Wavelength
White Port: 1550 nm
Red Port: 2000 nm
Maximum Optical Power^a
With Connectors or Bare Fiber: 1 W
Spliced: 5 W
Fiber Type: Corning SMF-28 Ultra

Test Data at Center Wavelength ^b		
Port Jacket Color	White	Red
Wavelength	1550 nm	2000 nm
Transmission ^c	98.9%	98.0%
Insertion Loss ^d	0.05 dB	0.09 dB
Isolation ^e	28.8 dB	28.6 dB

Test Data over Bandwidth ^b		
Bandwidth	1510-1590 nm	1960-2040 nm
Transmission ^c	96.2%	94.8%
Insertion Loss ^d	0.17 dB	0.23 dB
Isolation ^e	16.4 dB	16.0 dB

a. Specifies the maximum power allowed through the component. Performance and reliability under high power conditions must be determined within the user's setup.

b. All values are measured at room temperature without connectors.

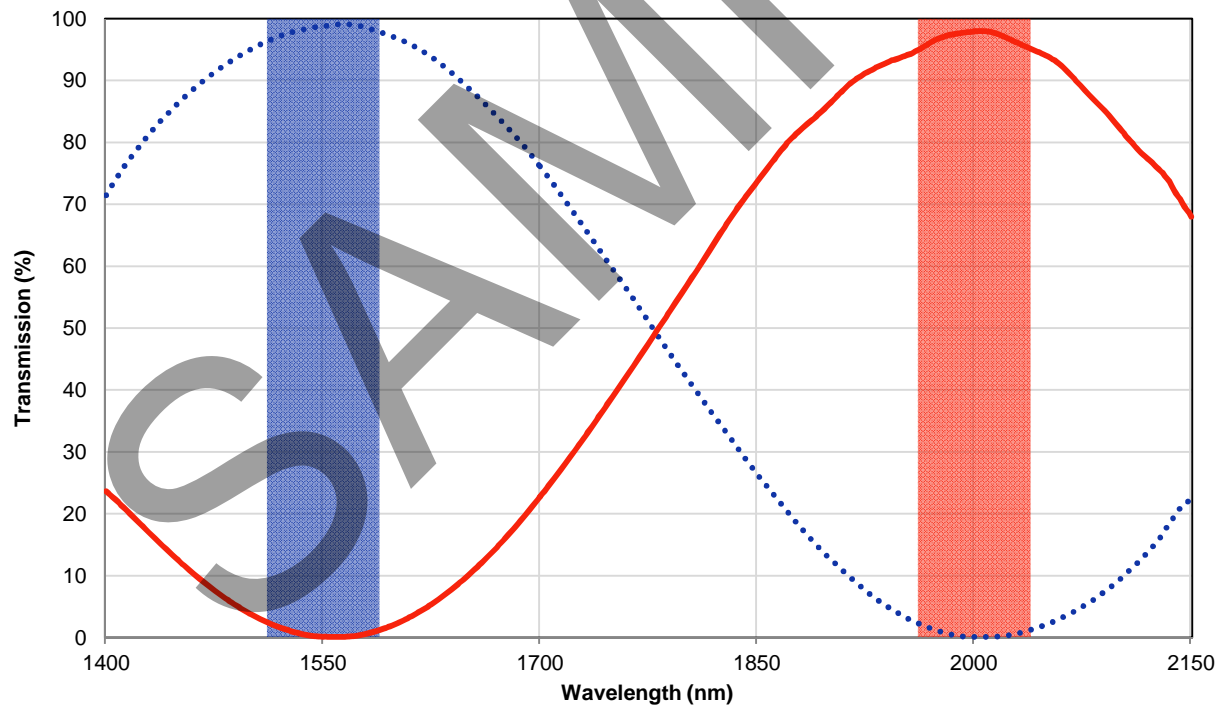
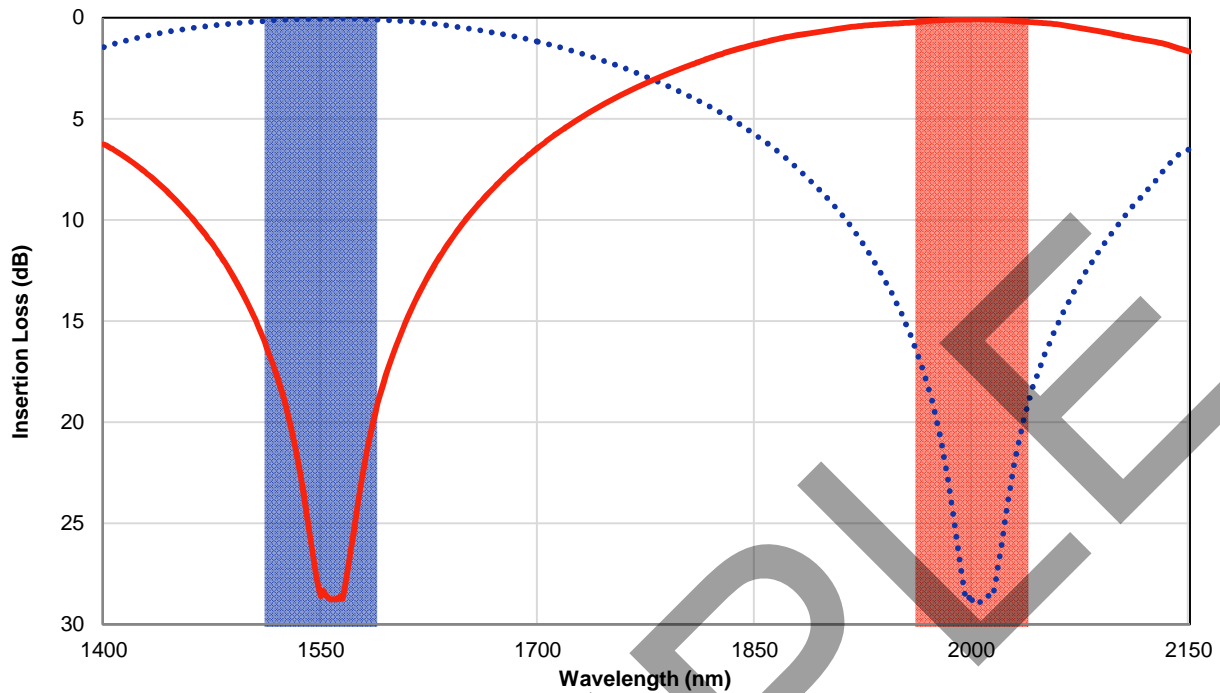
c. Calculated from measured insertion loss data below.

d. Insertion loss is the ratio of the input power to the output power for each port of the wavelength combiner / splitter (WDM). Insertion loss specification do not include loss due to intrinsic optical fiber attenuation. From 1950 nm to 2050 nm, SMF-28 Ultra intrinsic losses will vary from 0.01 to 0.02 dB/m.

e. Isolation represents the minimum crosstalk between ports.

SMF-28 Ultra fiber is very sensitive to bend loss in the 2 μ m wavelength region, hence a large bend radius (≥ 35 mm) is recommended for optimal optical performance.

Verified by: _____



This wavelength combiner / splitter (WDM) operation is only guaranteed over the specified bandwidth as defined by the colored regions above. Thorlabs displays a wider wavelength range to provide insight into how this particular device would perform if used outside its guaranteed operating range. The out-of-band performance can vary from device to device.