FINAL INSPECTION REPORT
1x2 Wavelength Combiner (WDM)

Item #: WDN20AB
SN: T029442

Center Wavelength
White Port: 2000 nm
Red Port: 700 nm
Maximum Optical Power[a]
With Connectors or Bare Fiber: 300 mW
Spliced: 0.5 W
Fiber Type: Corning SMF-28 Ultra

Test Data			
Port Jacket Color Red[b]			
Wavelength Range	600-800 nm		
Transmission[c]	≥ 97 % (Typical)		
Insertion Loss[d]	≤ 0.15 dB (Typical)		
Port Jacket Color White[e]			
Wavelength	1950 nm	2000 nm	2050 nm
Transmission[c]	89.66%	91.53%	90.64%
Insertion Loss[d,f]	0.47 dB	0.38 dB	0.43 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. Single mode operation in this wavelength range is not guaranteed due to the fiber cut-off wavelength. Specifications by design, insertion loss validated using single mode laser.

c. Calculated from insertion loss data below.

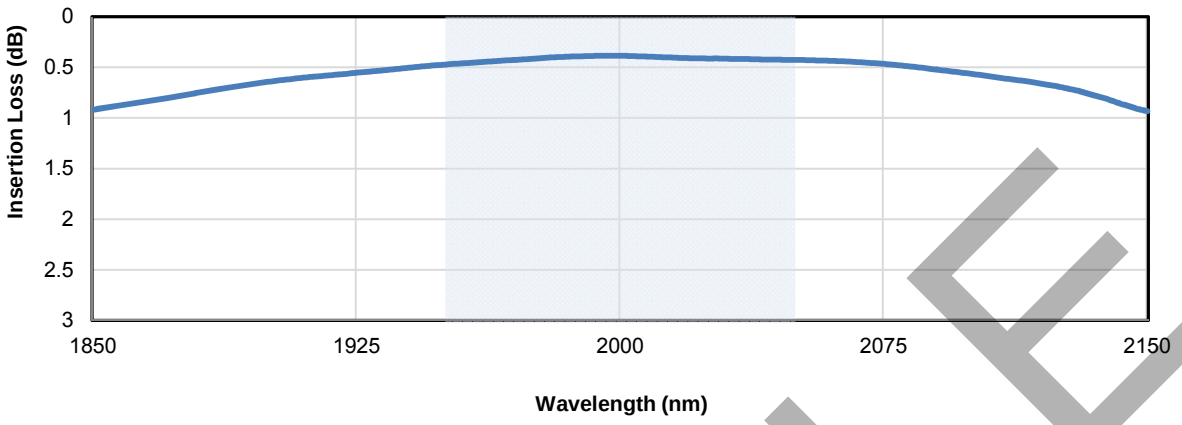
d. Ratio of the input power to the output power for each port of the wavelength combiner (WDM).

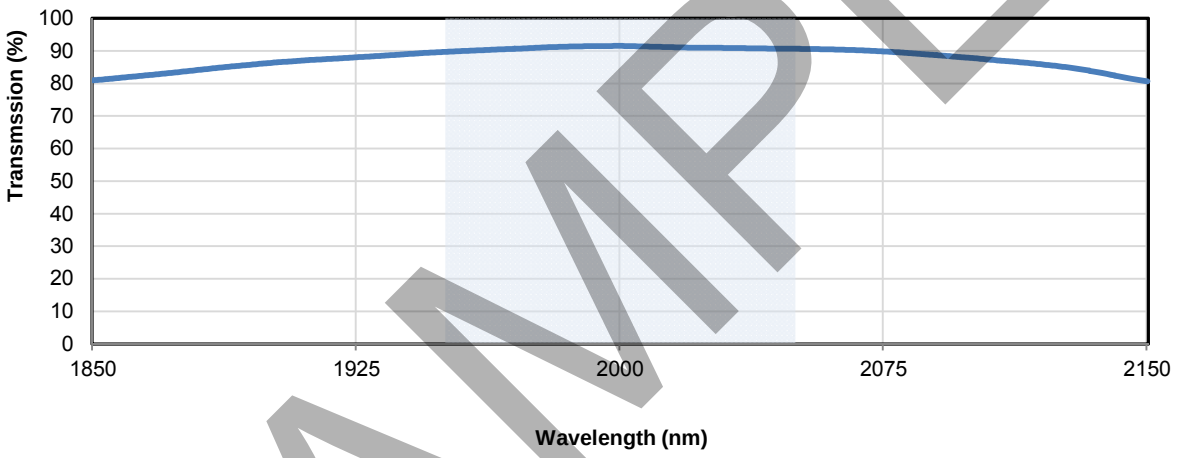
e. All values are measured at room temperature without connectors. The operating range of this channel is indicated by the shaded region in the graphs on the next page.

f. Insertion loss does not include loss due to intrinsic optical fiber attenuation. From 1950 nm to 2050 nm, Corning SMF-28 Ultra intrinsic losses will vary from 0.01 to 0.02 dB/m.

Verified by: _____

Test Data





This wavelength combiner (WDM) operation is only guaranteed over the specified bandwidth as defined by the shaded 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. Please note that due to the cut-off wavelength of Corning SMF-28 Ultra fiber, single mode operation is not guaranteed below 1260 nm.