



**FINAL INSPECTION REPORT**  
**1x2 Wavelength Combiner / Splitter (WDM)**

Item #: RG45A1  
SN: T005084

Center Wavelength  
Green Port: 561 nm  
Red Port: 640 nm  
Maximum Optical Power<sup>a</sup>  
With Connectors or Bare Fiber: 100 mW  
Spliced: 250 mW  
Fiber Type: Nufern 460-HP

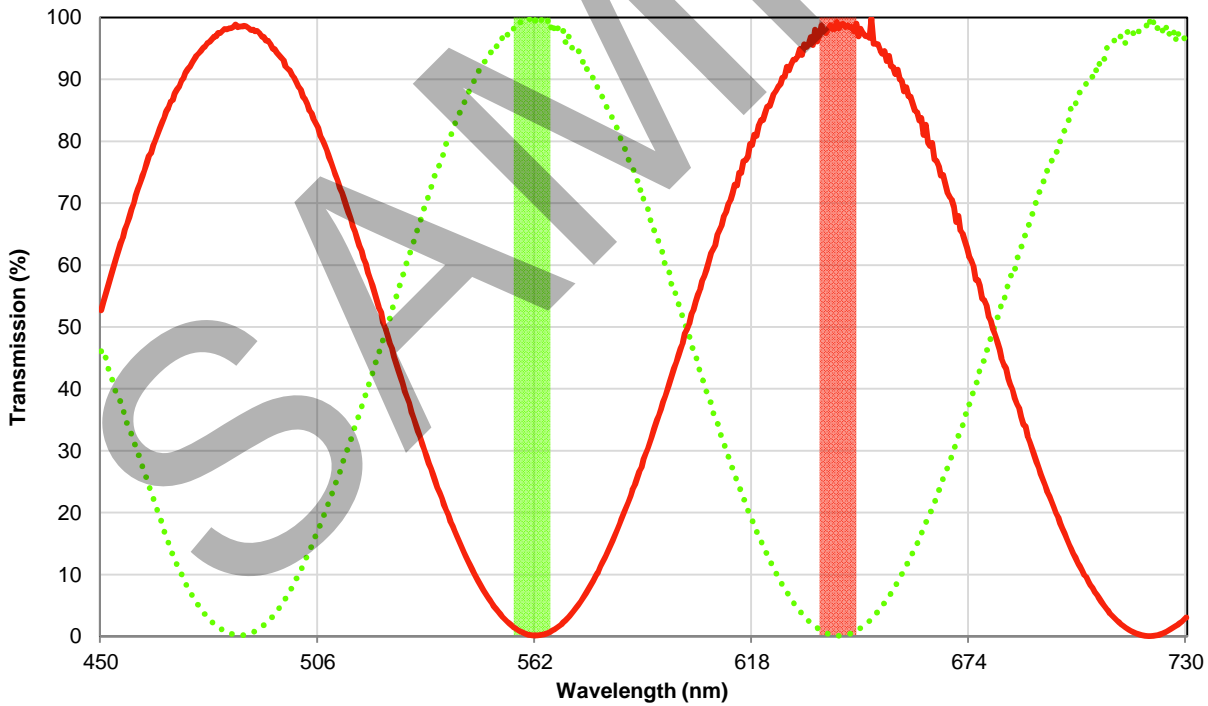
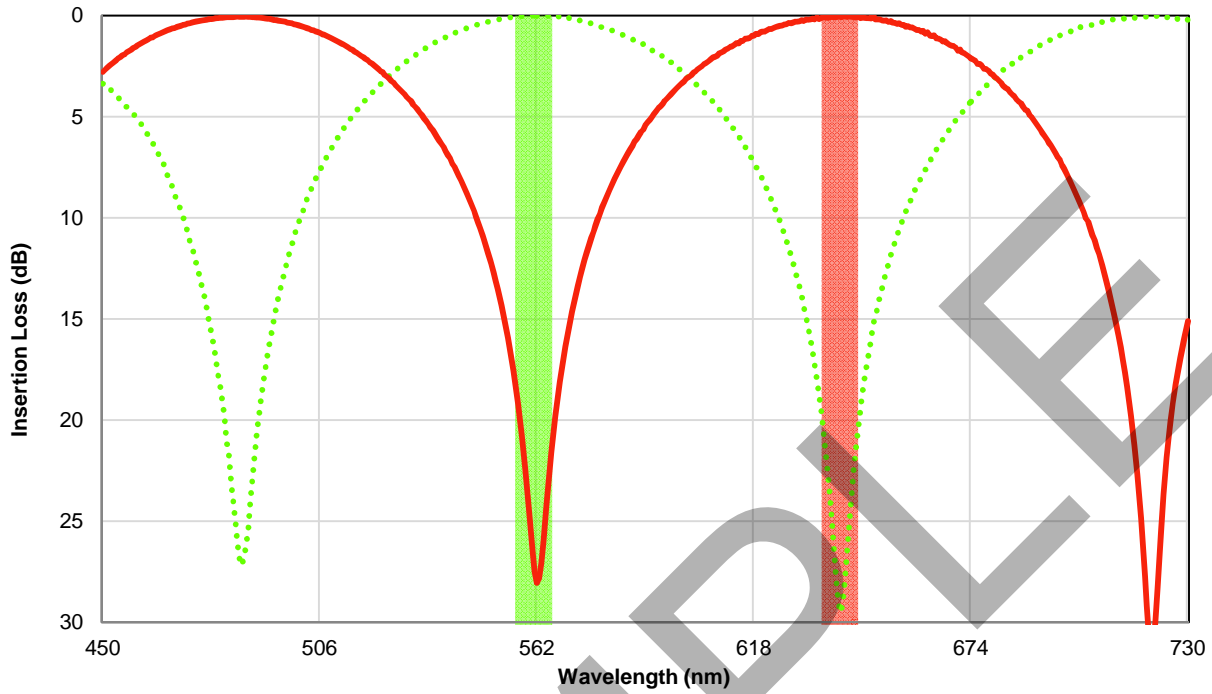
Test Data at Center Wavelength <sup>b</sup>		
Port Jacket Color	Green	Red
Wavelength	561 nm	640 nm
Transmission <sup>c</sup>	99.3%	99.3%
Insertion Loss <sup>d</sup>	0.03 dB	0.03 dB
Isolation <sup>e</sup>	26.5 dB	29.1 dB

Test Data over Bandwidth <sup>b</sup>		
Bandwidth	556-566 nm	635-645 nm
Transmission <sup>c</sup>	97.5%	98.4%
Insertion Loss <sup>d</sup>	0.11 dB	0.07 dB
Isolation <sup>e</sup>	18.2 dB	19.6 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).
- e. Isolation represents the minimum crosstalk between ports.

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.