



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

Item #: RB41A1
SN: T005110

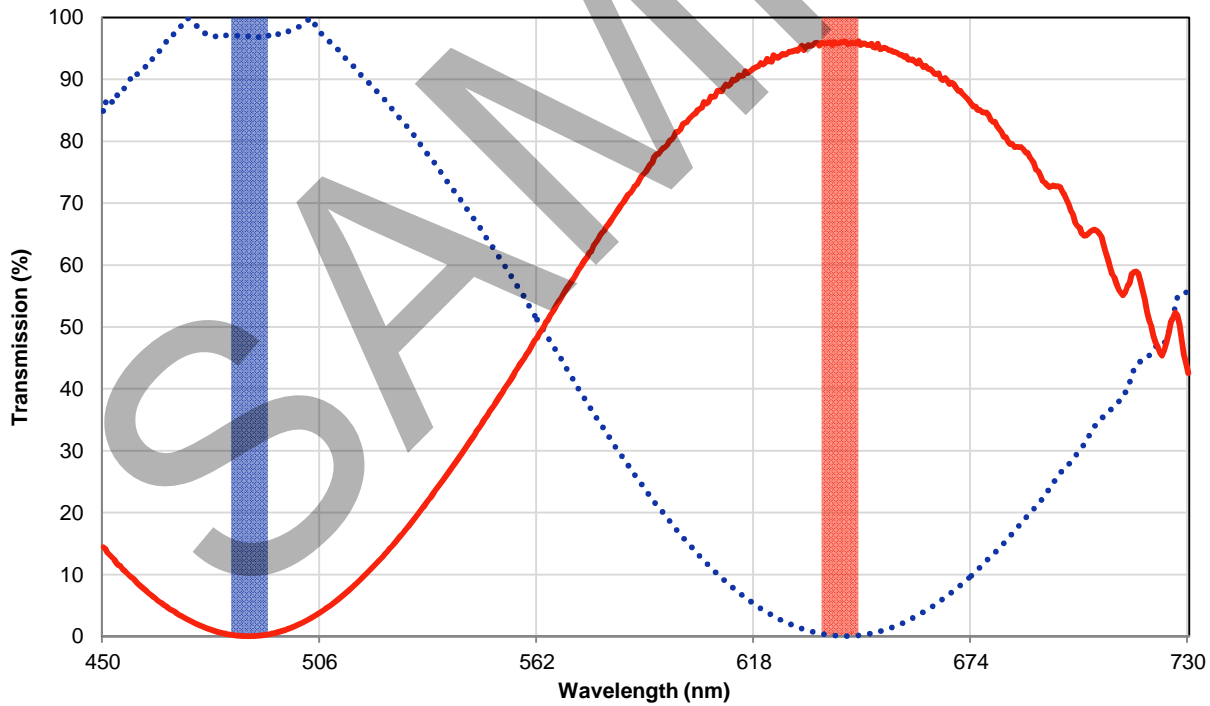
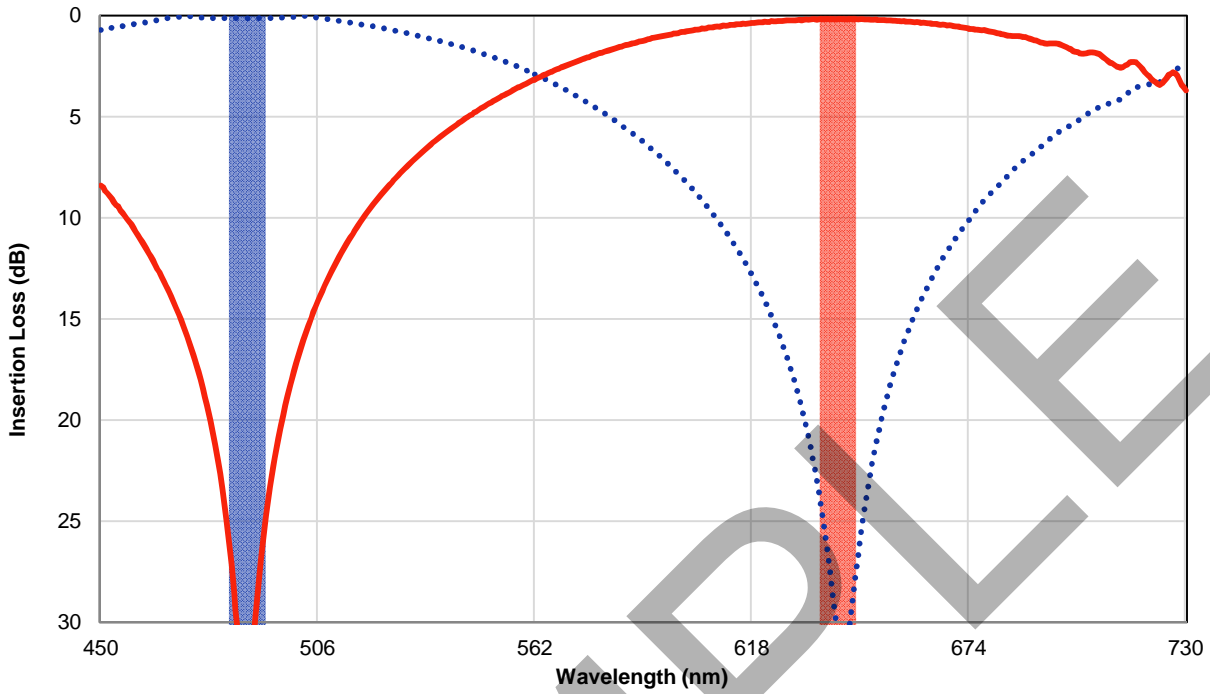
Center Wavelength
Blue Port: 488 nm
Red Port: 640 nm
Maximum Optical Power^a
With Connectors or Bare Fiber: 50 mW
Spliced: 100 mW
Fiber Type: Nufern 460-HP

Test Data at Center Wavelength ^b		
Port Jacket Color	Blue	Red
Wavelength	488 nm	640 nm
Transmission ^c	95.7%	96.8%
Insertion Loss ^d	0.19 dB	0.14 dB
Isolation ^e	33.7 dB	30.2 dB

Test Data over Bandwidth ^b		
Bandwidth	483-493 nm	635-645 nm
Transmission ^c	95.9%	97.3%
Insertion Loss ^d	0.18 dB	0.12 dB
Isolation ^e	24.8 dB	23.7 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.