THORLABS

FINAL INSPECTION REPORT

1x2 Wavelength Combiner / Splitter (WDM)

Item #: RB42A1
SN: T006592

Center Wavelength
- Blue Port: 473 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	473 nm	640 nm
Transmission[c]	97.5%	99.5%
Insertion Loss[d]	0.11 dB	0.02 dB
Isolation[e]	>50.0 dB	28.1 dB

Test Data over Bandwidth[b]		
Bandwidth	468-478 nm	635-645 nm
Transmission[c]	96.6%	98.6%
Insertion Loss[d]	0.15 dB	0.06 dB
Isolation[e]	19.8 dB	21.5 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.

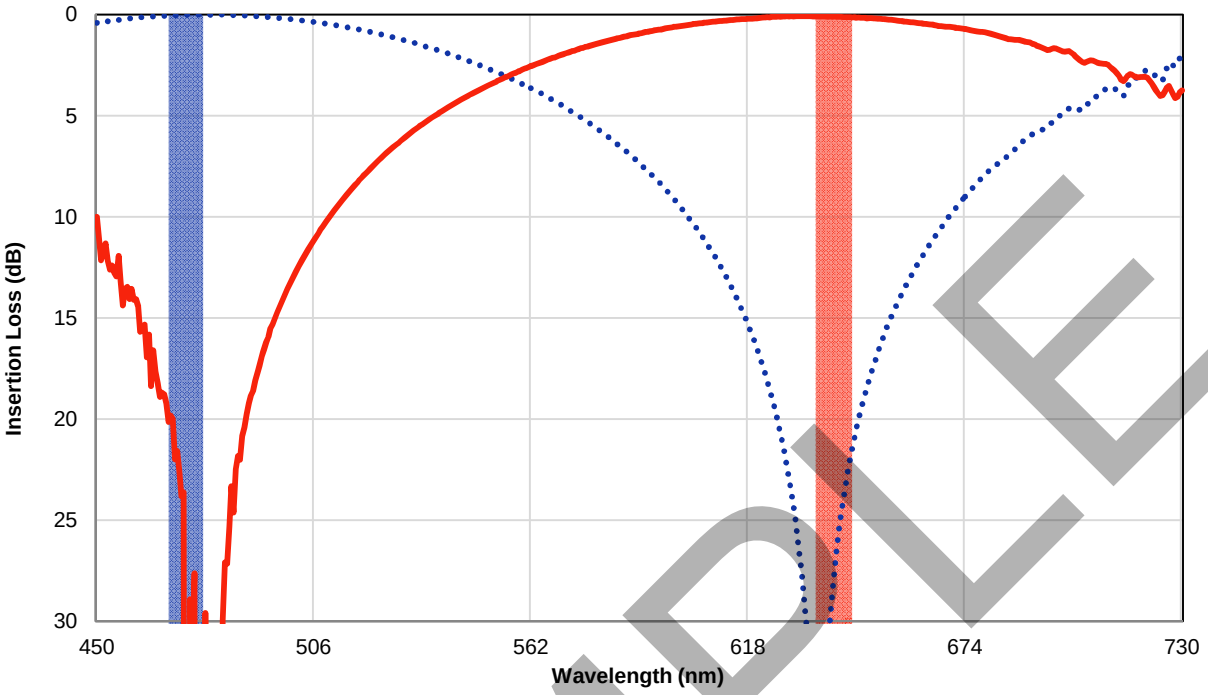
b. All values are measured at room temperature without connectors.

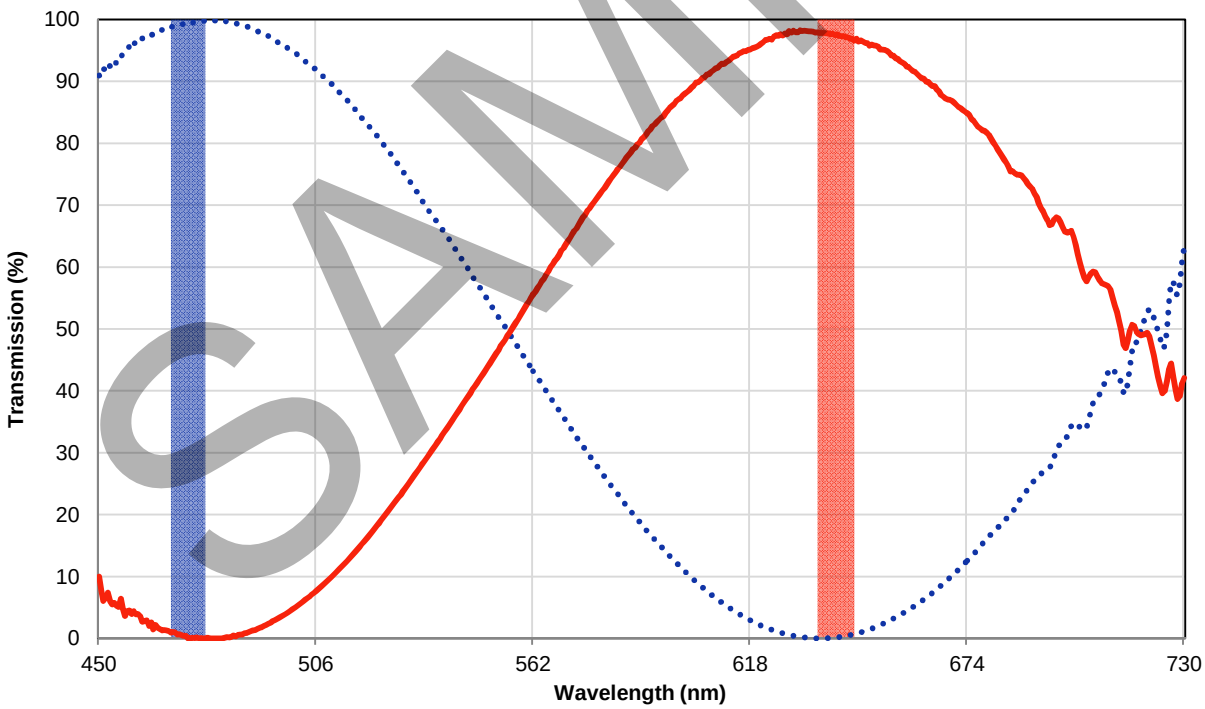
c. Calculated from measured insertion loss data below.

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.