



FINAL INSPECTION REPORT 1x3 Wavelength Combiner / Splitter (WDM)

Item #: RGB46HA

SN: A000291

Center Wavelength
Blue Port: 488 nm
Green Port: 532 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	Green	Red
Wavelength	488 nm	532 nm	640 nm
Transmission ^c	95.28%	96.38%	92.47%
Insertion Loss ^d	0.21 dB	0.16 dB	0.34 dB
Isolation ^e	White Port	N/A	21.0 dB
	Red Port	17.0 dB	N/A
	Blue Port	20.1 dB	27.6 dB

Test Data over Bandwidth ^b			
Bandwidth	483-493 nm	527-537 nm	635-645 nm
Transmission ^c	89.3%	93.5%	88.7%
Insertion Loss ^d	0.49 dB	0.29 dB	0.52 dB
Isolation ^e	White Port	N/A	11.46 dB
	Red Port	13.46 dB	N/A
	Blue Port	14.63 dB	23.00 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.

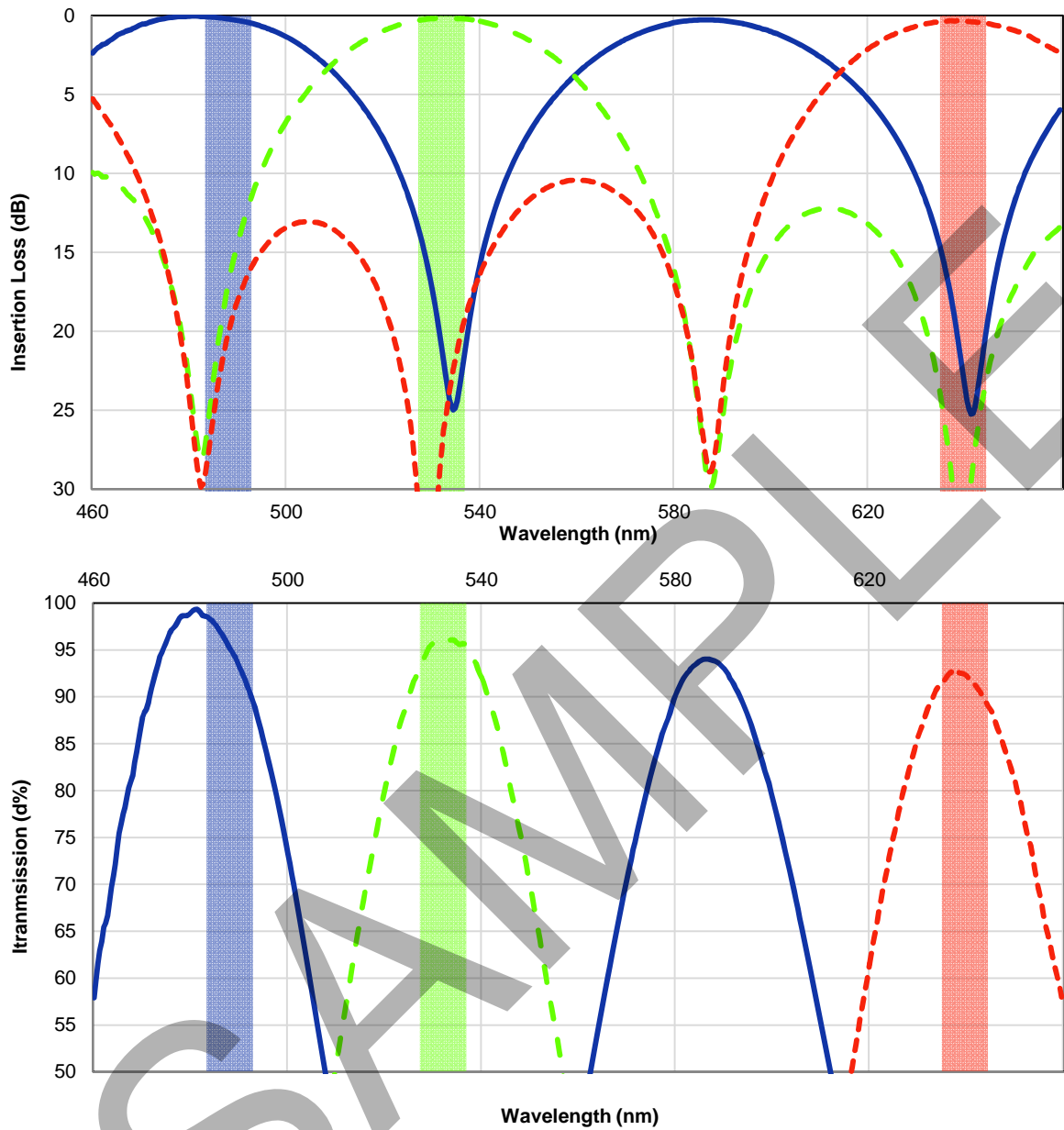
b. All values are measured at room temperature without connectors.

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.