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

Item #: RGB50HF
SN: A000162

Center Wavelength
- Blue Port: 488 nm
- Green Port: 561 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	561 nm	640 nm
Transmission[c]		97.72%	100.00%	97.95%
Insertion Loss[d]		0.10 dB	0.00 dB	0.09 dB
Isolation[e]	White Port	N/A	25.6 dB	>50.0 dB
	Red Port	22.9 dB	N/A	25.4 dB
	Blue Port	22.2 dB	26.4 dB	N/A

Test Data over Bandwidth[b]				
Bandwidth		483-493 nm	556-566 nm	635-645 nm
Transmission[c]		95.3%	98.6%	96.4%
Insertion Loss[d]		0.21 dB	0.06 dB	0.16 dB
Isolation[e]	White Port	N/A	16.12 dB	17.62 dB
	Red Port	18.67 dB	N/A	20.49 dB
	Blue Port	25.81 dB	18.68 dB	N/A

a. Specifies the maximum power allowed through the component. Performance and reliability under high power conditions must be determined within the user's setup.

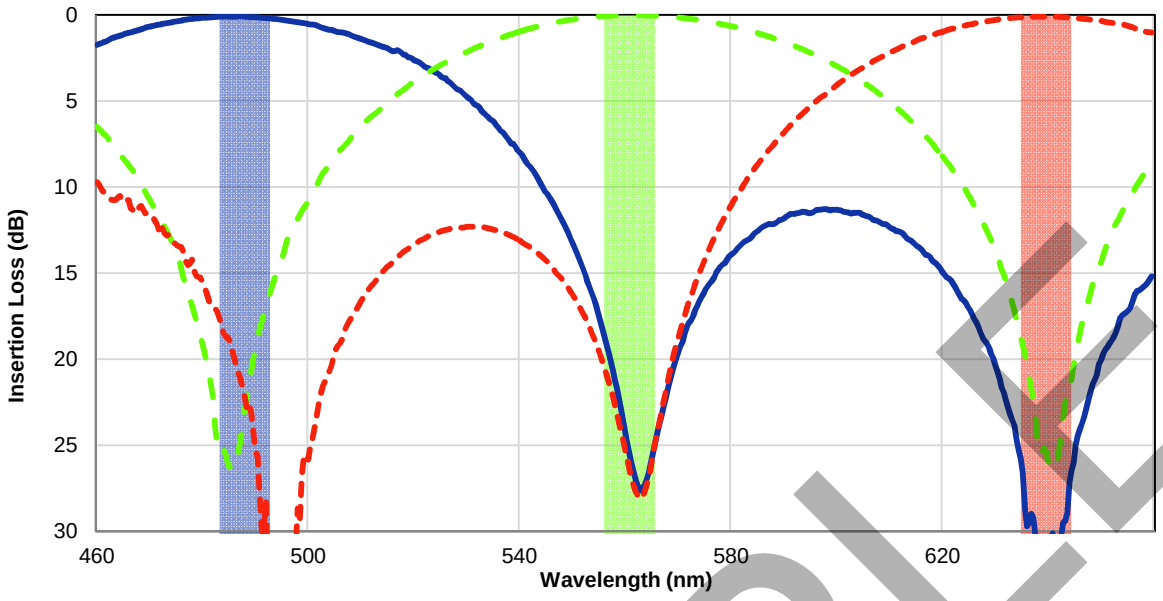
b. All values are measured at room temperature without connectors.

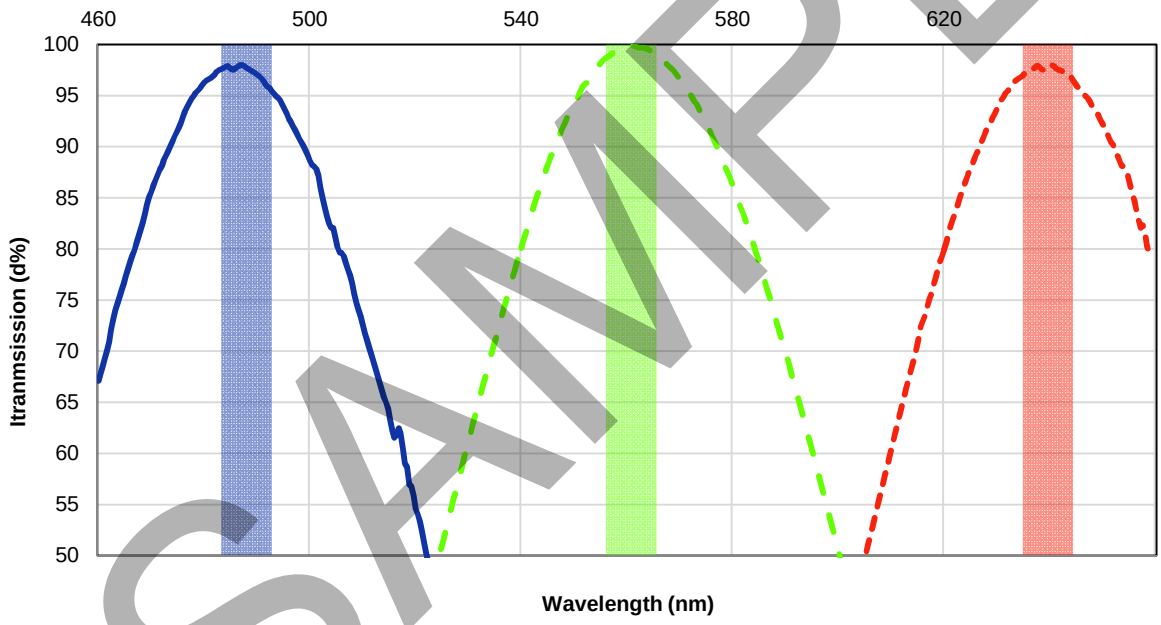
c. Calculated from measured insertion loss data below.

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.