

## FINAL INSPECTION REPORT

### 2x2 99 : 1 PM Narrowband Coupler

Item #: PN670R1A2  
SN: T039987

Center Wavelength: 670 nm  
Coupling Ratio Specification  
Signal Output: 98.5 % - 99.5 %  
Tap Output: 0.5 % - 1.5 %  
Bandwidth:  $\pm 15$  nm  
Maximum Optical Power<sup>a</sup>  
With Connectors or Bare Fiber: 300 mW  
Spliced: 0.5 W  
Fiber Type: Thorlabs Custom Fiber

Test Data <sup>b</sup>	
Excess Loss <sup>c</sup>	0.55 dB
Input-Output Path	White (Input) – White (Signal Output)
Coupling Ratio <sup>d</sup>	98.7 %
Insertion Loss <sup>e</sup>	0.61 dB
PER <sup>f</sup>	22.5 dB
Input-Output Path	White (Input) – Red (Tap Output)
Coupling Ratio <sup>d</sup>	1.3 %
Insertion Loss <sup>e</sup>	19.41 dB
PER <sup>f</sup>	27 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, except PER, are measured at room temperature without connectors through the white input port.

c. Ratio of the input optical power to the total optical power from all output ports. It is measured at the center wavelength.

d. Does not include losses, as this is a measurement of the output power distribution only.

e. Includes both the split of the power between the two outputs, as well as any optical losses in the coupler.

f. Measured with a slow axis launch at room temperature with connectors at 635 nm through the white input port.

Verified by: \_\_\_\_\_