

## FINAL INSPECTION REPORT

### 1x2 75:25 PM Narrowband Coupler

Item #: PN480R3F1  
SN: T031166

Center Wavelength: 480 nm  
Coupling Ratio Specification  
Signal Output: 71 % - 79 %  
Tap Output: 21 % - 29 %  
Bandwidth:  $\pm 15$  nm  
Maximum Optical Power<sup>a</sup>  
With Connectors or Bare Fiber: 50 mW  
Spliced: 100 mW  
Fiber Type: Thorlabs Custom Fiber

Test Data <sup>b</sup>	
Excess Loss <sup>c</sup>	0.4 dB
Input-Output Path	White (Input) – White (Signal Output)
Coupling Ratio <sup>d</sup>	74 %
Insertion Loss <sup>e</sup>	1.71 dB
PER <sup>f</sup>	27 dB
Input-Output Path	White (Input) – Red (Tap Output)
Coupling Ratio <sup>d</sup>	26 %
Insertion Loss <sup>e</sup>	6.25 dB
PER <sup>f</sup>	19.5 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, 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 the center wavelength through the white input port.

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