

**FINAL INSPECTION REPORT**

**1x2 105 µm Core 50:50 Multimode Coupler**

Item #: TM105FL1B  
SN: T034254

Bandwidth: 400 - 900 nm  
Coupling Ratio Specification  
Signal Output: 45 % - 55 %  
Tap Output: 45 % - 55 %  
Maximum Optical Power<sup>a</sup>  
With Connectors or Bare Fiber: 5 W  
Spliced: 10 W  
Fiber Type: Thorlabs Custom 0.22 NA MM Fiber

Test Data <sup>b</sup>	
Excess Loss <sup>c</sup>	≤ 0.6 dB
Input-Output Path	Black (Input) - White (Signal Output)
Coupling Ratio <sup>d</sup>	51 %
Insertion Loss <sup>e</sup>	3.22 dB
Input-Output Path	Black (Input) - Red (Tap Output)
Coupling Ratio <sup>d</sup>	49 %
Insertion Loss <sup>e</sup>	3.4 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 at 650 nm without connectors through the black input port.
- c. Ratio of the input optical power to the total optical power from all output ports. It is measured at the specified 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.

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