

## FINAL INSPECTION REPORT

### 1x2 75:25 PM Narrowband Coupler

Item #: PN530R3F1  
SN: T033585

Center Wavelength: 530 nm  
Coupling Ratio Specification  
Signal Output: 73 % - 77 %  
Tap Output: 23 % - 27 %  
Bandwidth:  $\pm 15$  nm  
Maximum Optical Power<sup>a</sup>  
With Connectors or Bare Fiber: 100 mW  
Spliced: 250 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> | 75 %                                  |
| Insertion Loss <sup>e</sup> | 1.65 dB                               |
| PER <sup>f</sup>            | 21 dB                                 |
| Input-Output Path           | White (Input) – Red (Tap Output)      |
| Coupling Ratio <sup>d</sup> | 25 %                                  |
| Insertion Loss <sup>e</sup> | 6.42 dB                               |
| PER <sup>f</sup>            | 19.6 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 488 nm through the white input port.

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