# FINAL INSPECTION REPORT

## 2x2 90:10 PM Narrowband Coupler

Item #: PN530R2A2
SN: T034094

Center Wavelength: 530 nm
Coupling Ratio Specification
  Signal Output: 89 % - 91 %
  Tap Output: 9 % - 11 %
Bandwidth: ±15 nm
Maximum Optical Power[a]
  With Connectors or Bare Fiber: 100 mW
  Spliced: 250 mW
Fiber Type: Thorlabs Custom Fiber

| Test Data[b] | |
|---|---|
| Excess Loss[c] | 0.3 dB |
| Input-Output Path | White (Input) – White (Signal Output) |
| Coupling Ratio[d] | 90 % |
| Insertion Loss[e] | 0.76 dB |
| PER[f] | 25 dB |
| Input-Output Path | White (Input) – Red (Tap Output) |
| Coupling Ratio[d] | 10 % |
| Insertion Loss[e] | 10.3 dB |
| PER[f] | 21 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: _____