

FINAL INSPECTION REPORT 2x2 50:50 PM Narrowband Coupler

Item #: PN480R5A2
SN: T031943

Center Wavelength: 480 nm
Coupling Ratio Specification
Signal Output: 44 % - 56 %
Tap Output: 44 % - 56 %
Bandwidth: ± 15 nm
Maximum Optical Power^a
With Connectors or Bare Fiber: 50 mW
Spliced: 100 mW
Fiber Type: Thorlabs Custom Fiber

| Test Data ^b | |
|-----------------------------|---------------------------------------|
| Excess Loss ^c | 0.4 dB |
| Input-Output Path | White (Input) – White (Signal Output) |
| Coupling Ratio ^d | 50 % |
| Insertion Loss ^e | 3.41 dB |
| PER ^f | 25 dB |
| Input-Output Path | White (Input) – Red (Tap Output) |
| Coupling Ratio ^d | 50 % |
| Insertion Loss ^e | 3.41 dB |
| PER ^f | 21.8 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: _____