

FINAL INSPECTION REPORT

1x2 Polarization Beam Combiner / Splitter^a

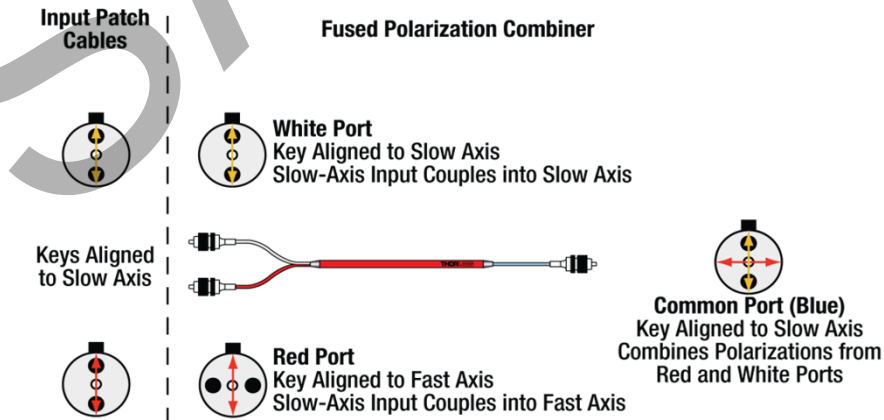
Item #: PFC1550A
SN: T032881

Center Wavelength: 1550 nm
Maximum Optical Power^b
With Connectors or Bare Fiber: 1 W
Spliced: 5 W
Fiber Type: YOFC PM1017-C+ (1550)

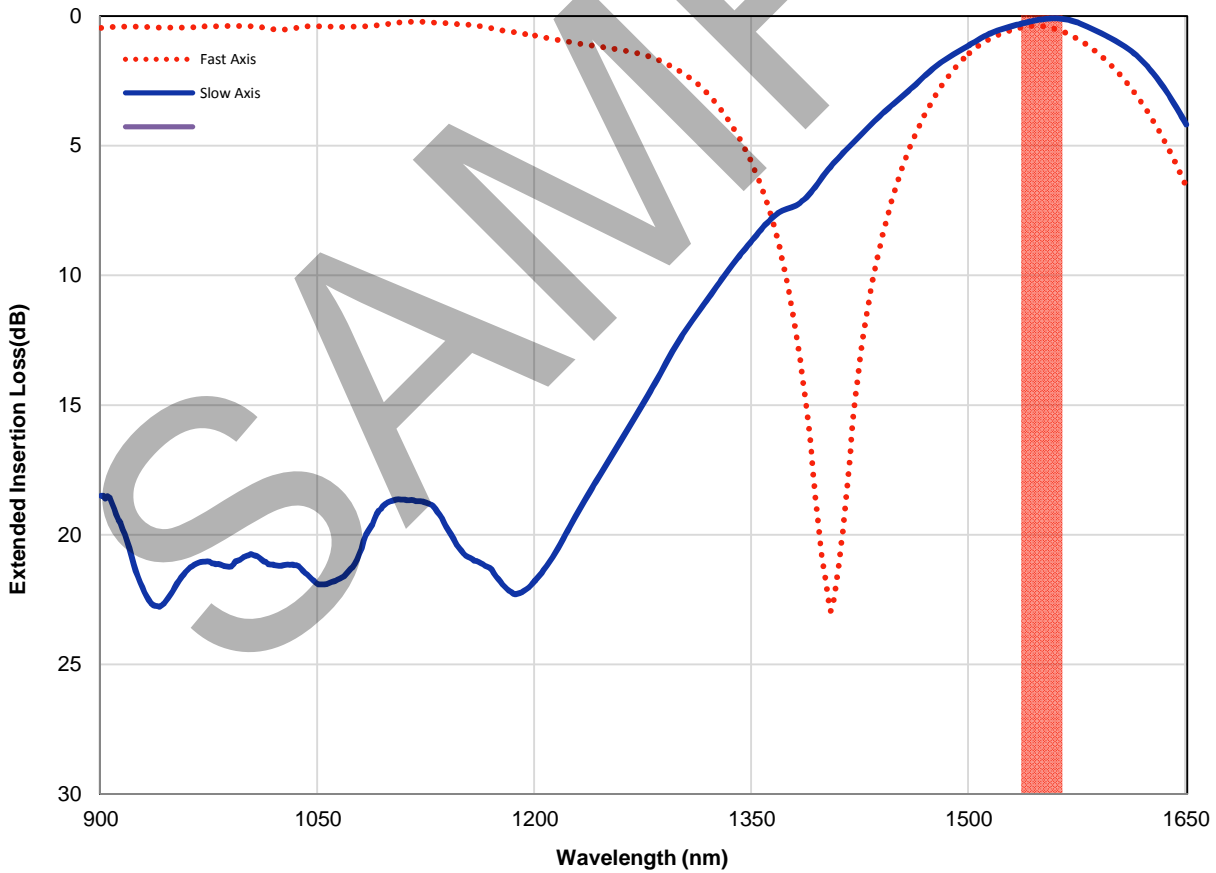
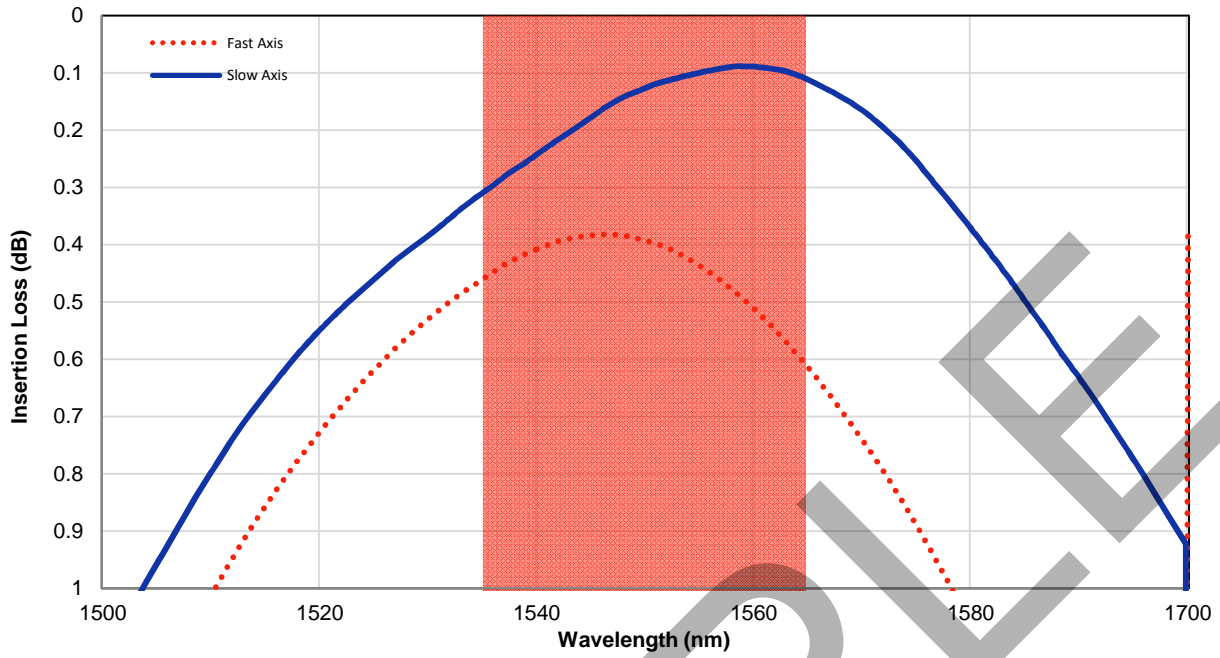
Test Data at Center Wavelength ^c		
Port Jacket Color	Red	White
Axis	Fast	Slow
Transmission ^d	91.4%	97.3%
Insertion Loss ^e	0.39 dB	0.1 dB
Extinction Ratio ^f	30 dB	33 dB

Test Data over Bandwidth ^c		
Bandwidth	1535-1565 nm	1535-1565 nm
Transmission ^d	86.7%	93.1%
Insertion Loss ^e	0.62 dB	0.3 dB

- a. Component splits polarization states when linear orthogonal polarization axis aligned states are injected into the blue common port.
- b. Specifies the maximum power allowed through the component. Performance and reliability under high power conditions must be determined within the user's setup.
- c. All values are measured at room temperature without connectors.
- d. Calculated from measured insertion loss data below.
- e. Insertion loss is the ratio of the input power to the output power for each port of the polarization combiner / splitter (PFC).
- f. Measured at room temperature with connectors at the center wavelength through the blue port.



Verified by: _____



This polarization combiner / splitter (PFC) operation is only guaranteed over the specified bandwidth as defined by the colored region above. Thorlabs displays a wider wavelength range to provide insight into how this particular device would perform if used outside its guaranteed operating range. The out-of-band performance can vary from device to device.