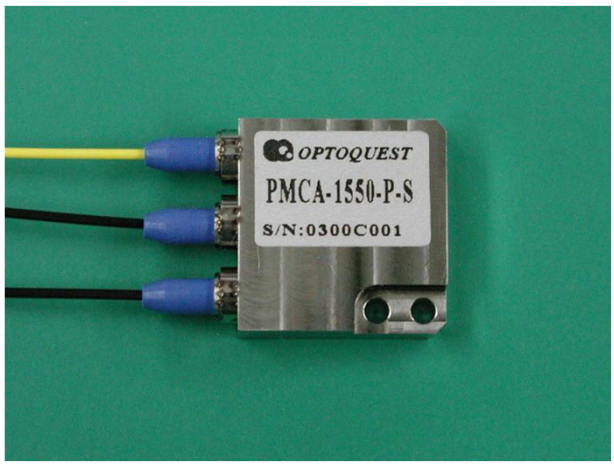
Polarization Composition/Separation Coupler
(Parallel Type)

This coupler uses optical crystals as elements for polarization composition and separation. This coupler is developed as a compact and high-performance fiber type module for polarization composition and separation. This product has a parallel fiber I/O structure and can be conveniently used for composition of LD light for excitation in optical fiber amplifiers.

Features

- Low insertion loss
- High extinction ratio (for polarization separation)
- Space conservation capability due to fiber I/O from one direction and compact design

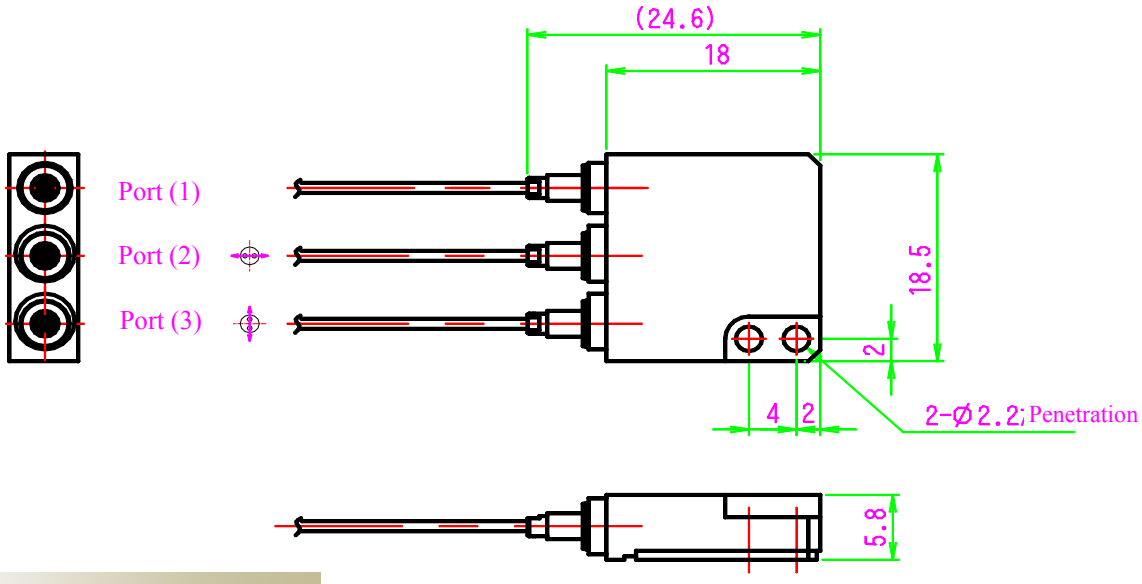


Typical Specifications

Model	PCA
Insertion Loss	≤ 0.7 dB
Extinction Ratio	≥ 20, 25 or 30 dB
Return Loss	≥ 50 dB
Optical Fiber	SMF or PMF (φ0.9 fibers)
Optical Connector	FC/SPC SC/SPC FC/Angled PC SC/Angled PC

*The polarization maintaining axis is parallel to the slow axis and the connector key.

Product Dimensions



Ordering Instructions

+Polarization Coupler

Order format: PCA- 15 - P / (2) - (1) / (2) - (3)

(*1) (*2)

(*1): Port(2) and Port(3), (*2): Port(1) This is Common port.

Order format example: PCA-15-P/F-S/F-25

(λ: 1510nm, Common port(1) fiber: SMF, Common Port(1) connector: FC/SPC, Port(2) and (3) fiber: PMF, Port(2) and (3) Connector: FC/SPC, Extinction Ratio≥25dB)

Wavelength	15: 1550nm *1310nm band is option.
Polarization-Maintaining Optical Fiber	P: PMF (φ0.9 fibers)
(1) Common Optical Fiber	S: SMF P: PMF (φ0.9 fibers)
(2) Optical Connector	F: FC/SPC S: SC/SPC FA: FC/Angled PC SA: SC/Angled PC
(3) Extinction Ratio	None: ≤ 20 dB 25: ≤ 25 dB 30: ≤ 30 dB

*The polarization maintaining axis is parallel to the slow axis and the connector key.