Integrated Polarization Beam Combiner and Depolarizer(IPBCD)

Description:

LD-PD's Integrated Polarization Beam Combiner and Depolarizer(IPBCD) is used in Raman or Hybrid Raman/EDFAs.The function is to combine two pump lasers into one,which also has an Isolator to protect pump laser and scrambling the polarization of light to improve amplifier efficiency and performance within a single,compact-sized cylinder package.This product has low Insertion Loss,low DOP,etc.

Features:

- Low insertion loss
- High isolation
- Low DOP

Applications:

- Raman Amplifier

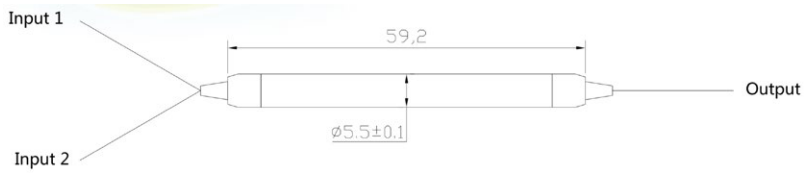
Main Specifications:

Parameter	Max	Min	Specification	Unit
Center Wavelength			1410 ~ 1470	nm
Insertion Loss	√		0.8	dB
Isolation		√	20	dB
DOP	√		10	%
Directivity		√	50	dB
Return Loss		√	50	dB
TDL	√		0.2	dB
Operating Temperature Range			0 ~ +70	°C
Storage Temperature Range			-40 ~ +85	°C
Maximum Power Handling			1500	mW
Package Dimension (L*Φ)			59.2*5.5	mm

Notes:

1. All values referenced without connector.
2. The input optical polarization direction is aligned to the slow axis.

Dimensions:



Order Information:

IPBCD-A-B-C

A	Wavelength	1: 1410-1470 nm
B	Fiber Type	1: 250 μm bare fiber, PM fiber 2: 400 μm bare fiber, PM fiber
C	Connector Type	0: without connector 1: LC/APC 2: FC/APC X: customized

Example

Part number of “IPBCD-1-1-X” represents an IPBCD with:

- 1410 - 1470 nm wavelength
- 250 μm bare PM fiber
- customized connector
- The above specifications represent the typical performance of an LD-PD INC Isolator Polarization Beam Combiner Depo-larizer of this category.
- Please contact our Sales to discuss your specific requirements.