AC Photonics

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Isolator Polarization Beam Combiner/Splitter hybrid

Key Features

- Low Insertion Loss
- High Extinction Ratio
- Compact In-Line Package
- High Stability and Reliability
- Epoxy Free Optical Path

Applications

- High Power EDFA
- Raman Amplifier
- Laboratory

Performance Specifications

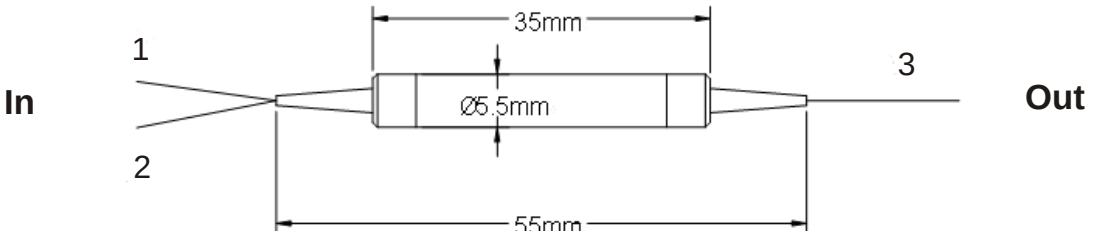
Parameter	Specifications	
	Single Stage	Dual Stage
Channel Wavelength	1310nm,1480nm or 1550nm	
Operating Wavelength Range	± 20nm	
Insertion Loss (Typ.)	0.45dB	0.55dB
Insertion Loss (Max.)	0.7dB	0.8dB
Isolation (Typ.)	40dB	51dB
Isolation (Min.)	30dB	42dB
Extinction Ratio (for splitter only) (Min.)	20dB	18dB
Return Loss (Min.)	50dB	
Direction of Incident Polarization	Slow Axis	
Optical Power	≤ 500mW	
Tensile Load (Max.)	5N	
Operating Temperature	-5 to +70°C	
Storage Temperature	-40 to +85°C	
Fiber Type	PM on port1 and 2, SMF-28 or PM on port3	
Package Dimensions	ø5.5mm x L35mm	

Note:

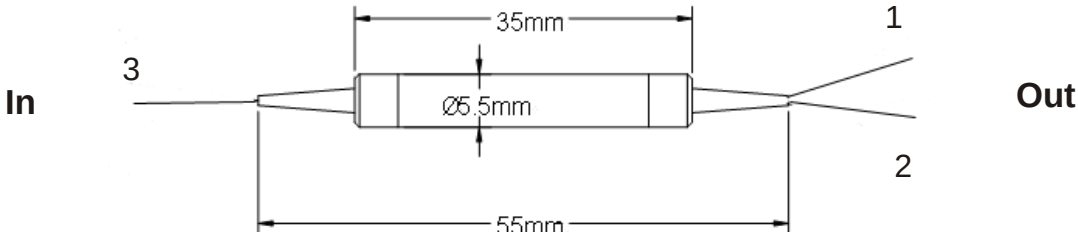
1. The PM fiber and the connector key are aligned to the slow axis.
2. The ER is for fiber </= 0.75 meter. Increase fiber length can decrease the ER.
3. For devices with connectors, insertion loss will be 0.3dB higher, return loss will be 5dB lower, and extinction loss will be 2dB lower.

Mechanical Dimensions

IPBC



IPBS



Ordering Information

IPB	☐	☐	☐☐	☐	☐	☐	☐	☐☐
	Configuration	**Isolator Type**	**Center Wavelength**	**Grade**	**PM Fiber Option**	**Pigtail Style**	**Fiber Length**	**In/Out Connector**
	S = Splitter C = Combiner	S = Single stage U = Dual stage	13 = 1310nm 14 = 1480nm 15 = 1550nm	P = P Grade	1 = Port1, Port2 Panda PM Port3 SMF-28 2 = All Panda PM	1 = Bare Fiber 2 = 900um Jacket	1 = 0.75m S = Specify	0 = None 1 = FC/APC 2 = FC/PC 3 = SC/APC 4 = SC/PC 5 = ST 6 = LC/UPC 7 = LC/APC