



Polarization beam combiner and isolator hybrid (iPBC) can combine two lights of different polarization status into one fiber, convert them into depolarization light, and can prevent unwanted back-reflect light from degrading the reliability and stability of pump laser. Technology ensures it with the best quality and reliability. The products meet the Telcordia GR-1221-CORE.

Features

- High Stable and Reliable
- Optical Path Epoxy-Free
- Low PDL and PMD
- Low insertion loss

Applications

- EDFA
- Raman Amplifiers
- WDM Systems
- Transmitters and Fiber Lasers

Specifications

Parameter	Unit	P Grade	A Grade
Center Wavelength (λ_c)	nm	1460,1480,1550	
Operating Wavelength Range	nm	$\lambda_c \pm 30$	
Insertion Loss(Over wavelength and temperature)	dB	≤ 0.5	≤ 0.7
Peak Isolation($\lambda_c, 23^\circ\text{C}$)	dB	≥ 35	
Min. Isolation(Over wavelength and temperature)	dB	≥ 20	
Directivity	dB	≥ 50	
Return Loss	dB	≥ 50	
Input Polarization Direction		Slow axis	
Operation Power	mW	≤ 1000	
Input Fiber Type	dB	Polarization Maintaining Fiber	
Output Fiber Type	dB	Single Mode Fiber(Corning SMF-28)	
Operation Temperature	$^\circ\text{C}$	$-10 \sim +65$	
Storage Temperature	$^\circ\text{C}$	$-40 \sim +80$	
Dimension	mm	$\Phi 5.5 \times 32.0$	

Ordering Information

Wavelength	Grade	Fiber of Port1, 2	Fiber of Port 3	Fiber Length	Input/Output
145:1450nm customer specifies	P:Grade P A:Grade A	04: $\Phi 0.4\text{mm}$ customer specifies	025: $\Phi 0.25\text{mm}$ 09: $\Phi 0.9\text{mm}$ customer specifies	1:1mm customer specifies	00:no connector FC/PC、FC/APC SC/PC、SC/APC LC/PC、MU/PC Customer specifies