

1310nm Isolator & Polarization Beam Combiner Hybrid

Features

Low Insertion Loss
High Return Loss
High Extinction Ratio
High Reliability
High Stability

Applications

EDFA & Raman Amplifier
Fiber Sensor
Coherent Telecommunication Systems
Polarization Mode Dispersion Compensator

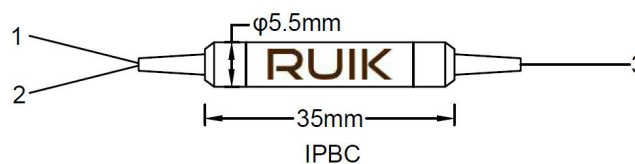
Specifications

Parameters		Unit	Values	
Stage		-	Dual	Single
Center Wavelength		nm	1310	
Operating Wavelength Range		nm	±20	
Typ. Insertion Loss at 23℃		dB	0.55	0.45
Max. Insertion Loss at 23℃		dB	0.80	0.70
Typ. Reversed Isolation at 23℃(Port 3 to Port1 or 2)		dB	51	35
Min. Isolation at 23℃(Port 3 to Port1 or 2)		dB	42	20
Min. Extinction Ratio at 23℃		dB	25	20
Directivity		dB	50	
Min. Return Loss		dB	50	
Max. Optical Power(CW)		mW	300	
Max. Tensile Load		N	5	
Fiber Type	Port1 & 2	-	PM Panda fiber	
	Port3	-	PM Panda fiber or SMF-28E or Hi1060	
Operating Temperature		℃	-5~+70	
Storage Temperature		℃	-40~+85	

For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower.

The default connector key is aligned to slow axis.

More Details



Routing path is from port 1, 2 to 3, Here are three options of polarized state from Port 1, 2 to Port 3:

Option 1, PM to SM,

Port 1: 50%,Linear polarized light in, through slow axis, Port 2: 50%,Linear polarized light in, through slow axis
Port 3, 100%, Circularly polarized light Out,

Option 2: PM to PM, port 1 is slow axis 0° aligned to port 3

Port 1, 2, only work through slow axis, blocked the fast,
The slow axis of port 1 is aligned to the slow axis of port 3,
The slow axis of port 2 is aligned to the fast axis of port 3,

Option 3:PM to PM, port 1 is slow axis 45° aligned to port 3

Port 1, 2, only work through slow axis, blocked the fast,
Port 1 or 2, 100%,Linear polarized light in, through slow axis,
Port 3, 25% linear polarized light out, through slow axis, and 25% by the fast,

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Ordering Information

IPBC-1111-234-555-666-789-AAA

1111	-Center Wavelength:	1550=1550nm,1310=1310nm,.....,0850=850nm
2	-Grade:	P=Perfect grade, A=A grade
3	-Core Type:	S=Single-core, D=Dual-core
4	-Option for Port 3 to 1,2:	1=Option 1, 2=Option 2, 3=Option 3
555	-Fiber Type for Port 3:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
666	-Fiber Type for Port 1,2:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
7	-Package Dimension:	0=φ5.5x35mm, 1=φ5.5x50mm, S=Specified
8	-Pigtail Type:	0=250μm bare fiber, 1=900μm loose tube
9	-Fiber Length:	0=0.8m, 1=1m
AAA	-Connector for Port 1,2,3:	0=FC/UPC,1=FC/APC,2=SC/UPC,3=SC/APC,4=LC/UPC,5=LC/APC, N=None