

1310nm Isolator & Polarization Beam Splitter

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

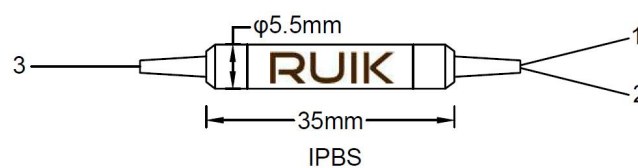
Specifications

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. Isolation		dB	51	35
Min. Isolation		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 3 to 1,2, Here are three options of polarized state from Port 3 to Port 1 & 2:

Option 1, SM to PM,

Port 3, Circularly polarized light in,

Port 1: 50%,Linear polarized light out, through slow axis, Port 2: 50%,Linear polarized light out, through slow axis

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

1.Port 3, Linearly polarized light in, through slow axis,

Port 1: 100%,Linear polarized light out, through slow axis, Port 2: 0%

2.Port 3,Linearly polarized light in, through fast axis,

Port 1: 0%, Port 2: 100%,Linear polarized light out, through slow axis

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

1.Port 3, Linearly polarized light in, through slow axis,

Port 1: 50%,Linear polarized light out, through slow axis, Port 2: 50%,Linear polarized light out, through slow axis

2.Port 3, Linearly polarized light in, through fast axis,

Port 1: 50%,Linear polarized light out, through slow axis, Port 2: 50%,Linear polarized light out, through slow axis

1310nm Isolator & Polarization Beam Splitter

Ordering Information

IPBS-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