

2 in 1 Isolator

Features:

- Wide Operating Wavelength & Temperature
- Low Insertion Loss
- High Isolation
- Ultra Low PDL & PMD
- Compact Size (Half Size of 2 Ordinary Isolators)

Applications:

- EDFA
- CATV Fiber Optics Link
- WDM & DWDM Systems
- Fiber Optic Instruments
- Transmitters & Fiber Laser
- Laboratory R&D



Single Stage 2 in 1 Isolator

Specifications^{1,2}:

Parameter	Unit	Grade "P"	Grade "A"
Central Wavelength (λ_c)	nm	1550	
Isolation ($\lambda_c \pm 15$ nm, 23 °C, All SOP)	Min. dB	30	28
Isolation ($\lambda_c \pm 15$ nm, 0~70 °C, All SOP)	Min. dB	21	20
Insertion Loss (λ_c , 23 °C, All SOP)	Typ. dB	0.40	0.50
Insertion Loss ($\lambda_c \pm 20$ nm, 0~70 °C, All SOP)	Max. dB	0.60	0.70
PDL (λ_c , 23 °C, All SOP)	Max. dB	0.10	0.15
PMD	Max. ps	0.20	0.20
Cross Talk	Min. dB	55	55
Return Loss (Input/Output)	Min. dB	60/60	60/55
Power Handling	Max. mW	500	500
Operating Temperature	°C	0~70	
Storage Temperature	°C	-40~85	
Package Dimension	mm	$(\phi)5.5 \times (L)32$	

* "U" here means ultra low insertion loss.

Single Stage PMD 2 in 1 Isolator

Specifications^{1,2}:

Parameter		Unit	Grade "P"	Grade "A"
Central Wavelength (λ_c)		nm	1550	
Isolation ($\lambda_c \pm 15$ nm, 23 °C, All SOP)	Min.	dB	30	28
Isolation ($\lambda_c \pm 15$ nm, 0~ 70 °C, All SOP)	Min.	dB	21	20
Insertion Loss (λ_c , 23 °C, All SOP)	Typ.	dB	0.40	0.50
Insertion Loss ($\lambda_c \pm 20$ nm, 0~ 70 °C, All SOP)	Max.	dB	0.60	0.70
PDL	Max.	dB	0.10	0.15
PMD	Max.	ps	0.02	0.05
Return Loss (Input/Output)	Min.	dB	60/60	60/55
Cross Talk	Min.	dB	55	55
Power Handling	Max.	mW	500	500
Operating Temperature		°C	0~ 70	
Storage Temperature		°C	- 40~ 85	
Package Dimension		mm	(ϕ)5.5 x (L)32	

Dual Stage 2 in 1 Isolator

Specifications^{1,2}:

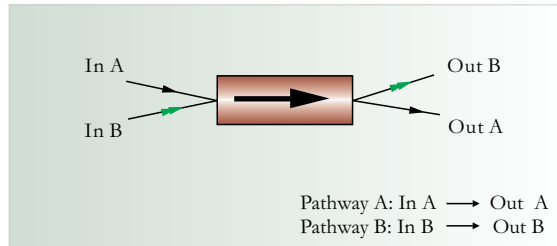
Parameter		Unit	Grade "P"	Grade "A"
Central Wavelength (λ_c)		nm	1550	
Isolation ($\lambda_c \pm 20$ nm, 23 °C, All SOP)	Min.	dB	46	45
Isolation ($\lambda_c \pm 20$ nm, 0~ 70 °C, All SOP)	Min.	dB	42	38
Insertion Loss (λ_c , 23 °C, All SOP)	Typ.	dB	0.50	0.60
Insertion Loss ($\lambda_c \pm 20$ nm, 0~ 70 °C, All SOP)	Max.	dB	0.70	0.90
PDL	Max.	dB	0.10	0.15
PMD	Max.	ps	0.05	0.05
Return Loss (Input/Output)	Min.	dB	60/60	60/55
Cross Talk	Min.	dB	55	55
Power Handling	Max.	mW	500	500
Operating Temperature		°C	0~70	
Storage Temperature		°C	- 40~85	
Package Dimension		mm	(ϕ)5.5 x (L)32	

1. SOP=State of Polarization.

2. Values referenced without connectors.

Note: OEM products with different specifications are also available.

Configuration:



Dimension:

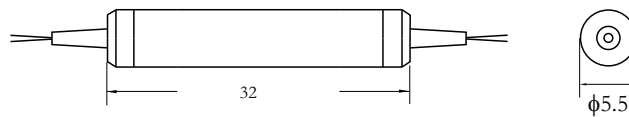


Figure 1. 2 in 1 Isolator

Order Information:

BISO - $\frac{X}{A}$ - $\frac{X}{B}$ - $\frac{XXXX}{C}$ - $\frac{XXXX}{D}$ - $\frac{X}{E}$

A	Type	S=Single stage
		D=Dual stage
		C=PMD compensated
B	Grade	P=Grade "P"
		A=Grade "A"
C	Fiber Type	250S=250 μm bare fiber
		900L=900 μm loose tube
		900T=900 μm tight buffer fiber
D	Wavelength	1550=1550 nm
E	Connector	N=W/O connector
		Y=With connector ¹

1. Please specify the type of connector when ordering.