PHOTOP

Power

Optical Isolator

Features:

- Wide Operating Wavelength & Temperature Range
- Low Insertion Loss & High Isolation
- Ultra Low PDL & PMD
- Epoxy-Free in Optical Path
- RoHS Compliant

Applications:

- EDFA
- WDM & DWDM Systems
- Fiber Optic Instruments
- Transmitters & Fiber Laser

Isolator (1550nm)

Specifications[1, 2]:

Parameter		Unit	Single Stage	PMD Compensated	Dual Stage
Operating Wavelength Band		nm		1526~1570	
Insertion Loss (1526~1570nm, -5~70°C, All SOP)	Typ.	dB	0.3	0.3	0.35
	Max.	dB	0.55	0.55	0.6
Isolation (1526~1570nm, -5~70°C, All SOP)	Min.	dB	20	20	40
PDL (1550nm, 23°C, All SOP)	Max.	dB	0.1	0.1	0.1
Return Loss (Input/Output) (1550nm, 23°C)	Min.	dB	60/55	60/55	60/55
PMD	Max.	ps	0.2	0.05	0.05
Fiber Type				Corning SMF-28e	
Fiber Length	Min.	m		1.0	
Power Handling	Max.	mW		500	
Operating Temperature		°C		-5~70	
Storage Temperature		°C		-40~85	
Package Dimension		mm		(f)5.5´ (L)32	

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Isolator (1310, 1480, 1590nm)

Specifications[1, 2]:

Parameter		Unit	Single Stage	PMD Compensated	Dual Stage
Central Wavelength		nm		1310, 1480, 1590	
Insertion Loss (λc+/-20nm, -5~70°C, All SOP)	Typ.	dB	0.3	0.3	0.35
	Max.	dB	0.55	0.55	0.7
Isolation (λc+/-20nm, -5~70°C, All SOP)	Min.	dB	20[3]	20[3]	40[4]
PDL (λc, 23°C, All SOP)	Max.	dB	0.1	0.1	0.1
Return Loss (Input/Output) (λc, 23°C)	Min.	dB	60/55	60/55	60/55
PMD	Max.	ps	0.2	0.05	0.05
Fiber Type				Corning SMF-28e	
Fiber Length	Min.	m		1.0	
Power Handling	Max.	mW		500	
Operating Temperature		°C		-5~70	
Storage Temperature		°C		-40~85	
Package Dimension		mm		(f)5.5´ (L)32	

1. SOP=State of Polarization.
2. Values referenced without connectors.
3. Isolation is 18dB for 1310nm and 1480nm.
4. Isolation is 38dB for 1310nm and 1480nm.

Note: OEM products with different specifications are also available.

Dimension:

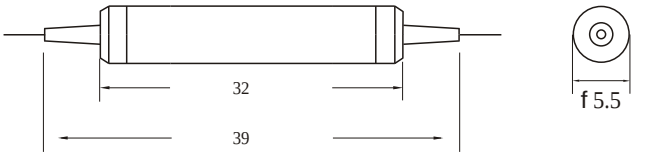

Figure 1. Optical Isolator

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Order Information:

KISO - X - X - XXXX - XXXX - XX

A B C D E

A	Type	S=Single stage
		D=Dual stage
		C=PMD compensated
B	Grade	A=Grade ²A²
C	Fiber Type	250S=250㎜ bare fiber
		900L=900㎜ loose tube
		900T=900㎜ tight buffer
D	Wavelength	1310=1310nm
		1480=1480nm
		1550=1550nm
		1590=1590nm
E	Connector	NN=W/O connector
		XY=With connector[1]

1. Please specify the type of connector when ordering.

Mechanical Type	Other	SC	FC	ST	MU	LC
X	0	1	2	3	4	5
Physical Contact Type	Other	PC	UPC	APC		
Y	0	1	2	3		

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