

Mini-size Inline Optical Isolator

FEATURES

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability
- Low Profile Packaging

APPLICATIONS

- Fiber Optic Amplifiers
- Fiber Optic Instruments
- WDM Systems
- Transmitters and Fiber Lasers
- CATV Networks



SPECIFICATIONS

Parameter	Unit	Single Stage	Dual Stage
Center Wavelength (λ_c)	nm	1310, 1550	
Bandwidth	nm	+/-20	
Typ. Peak Isolation	dB	40	52
Isolation ($\lambda_c \pm 20\text{nm}$, 23°C, All SOP)	dB	≥ 28	≥ 42
Insertion Loss (λ_c , 23°C, All SOP)	dB	≤ 0.4	≤ 0.5
Insertion Loss ($\lambda_c \pm 20\text{nm}$, 0-70°C, All SOP)	dB	≤ 0.55	≤ 0.65
Optical Return Loss (Input/Output)	dB	60/55	60/55
Polarization Dependent Loss @ 23°C	dB	≤ 0.10	≤ 0.10
Polarization Mode Dispersion	ps	≤ 0.20	≤ 0.10
Fiber Type	-	SMF-28 Fiber or 10/130um DC Fiber (O) 12/130um DC Fiber (T) or 20/130um DC Fiber (Q) 25/250um DC Fiber (R) or 25/300um DC Fiber (G)	
Fiber Tensile Load	N	5	
Maximum Optical Power (CW)	mW	300	
Operating Temperature	°C	0~70	
Storage Temperature	°C	-40~85	
Package Dimension	mm	$(\Phi) 3.8 \times 22$	

Note: 1. SOP= State of Polarization.

2. Specifications are for device without connectors; Specifications may change without notice.

3. To add connectors, IL is 0.3dB higher, RL is 5dB lower.

4. Devices for higher optical power or with other type fiber or consigned fiber are also available.

ORDERING INFORMATION (PN)

FISM- NNNN	-	C	-	(C)	C	NN	-	CC/CCC
<i>Center Wavelength</i>		<i>Stage</i>		<i>Fiber Type</i>	<i>Fiber Sleeve</i>	<i>Fiber Length</i>		<i>Connector Type</i>
1310- 1310nm		S= Single Stage		O=10/130 DC Fiber	B= Bare Fiber	05=0.5m		N=Without Connector
1550- 1550nm		D= Dual Stage		T=12/130 DC Fiber	L= Loose Tube	10=1.0m		FC/APC=FC/APC Connector
				G=25/300 DC Fiber	2= 2mm Cable	15=1.5m		LC/PC=LC/PC Connector
				Blank for SMF-28 Fiber	3= 3mm Cable	20=2.0m		SC/UPC=SC/UPC Connector