

1650nm 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	1650	
Isolation ($\lambda_c \pm 5\text{nm}$, 23°C)	dB	≥ 20	≥ 40
Insertion Loss (λ_c , 23°C)	dB	≤ 0.8	≤ 1.1
Insertion Loss (λ_c , 0-50°C)	dB	≤ 1.0	≤ 1.4
Optical Return Loss (Input/Output)	dB	50/50	50/50
PDL	dB	≤ 0.15	
PMD	-	≤ 0.25	≤ 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	
Max. Optical Power (CW)	mW	300	
Operating Temperature	°C	0~50	
Storage Temperature	°C	-40~85	
Package	Stainless Steel Tube (SST)	mm	(Φ)5.5x35
Dimension	Metal Box-M	mm	(L)120x(W)12x(H)10

- Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
 2. To add connectors, IL is 0.3dB higher, RL is 5dB lower.
 3. Devices for higher optical power or with other type fiber or consigned fiber are also available; Devices can only work in the core of Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.

ORDERING INFORMATION (PN)

FISO-NNNN	-	C	-	(C)	(C)	C	NN	-	CC/CCC
<i>Center Wavelength</i>		<i>Stage</i>		<i>Package</i>	<i>Fiber Type</i>	<i>Fiber Sleeve</i>	<i>Fiber Length</i>		<i>Connector Type</i>
1650= 1650nm		S= Single Stage D= Dual Stage		M= Metal Box <i>Blank</i> for SST	O= 10/130 DC Fiber T= 12/130 DC Fiber G= 25/300 DC Fiber <i>Blank</i> for SMF-28 Fiber	B= Bare Fiber L= Loose Tube 2= 2mm Cable 3= 3mm Cable	05= 0.5m 10= 1.0m 15= 1.5m 20= 2.0m		N= Without Connector FC/APC= FC/APC Connector LC/PC= LC/PC Connector SC/UPC= SC/UPC Connector