

1080nm 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	1080	
Bandwidth	nm	+/-10	
Peak Isolation (Typ.)	dB	30	50
Isolation ($\lambda_c \pm 10\text{nm}$, 23°C, All SOP)	dB	≥ 25	≥ 40
Typical Insertion Loss (λ_c , 23°C, All SOP)	dB	1.4	2.2
Insertion Loss (λ_c , 0-50°C, All SOP)	dB	≤ 1.9	≤ 3.4
Optical Return Loss (Input/Output)	dB	50/50	50/50
Polarization Dependent Loss	dB	≤ 0.15	≤ 0.15
Fiber Type	-	HI1060 Fiber or 10/125um SC Fiber (E) 10/125um DC Fiber (O), 15/130um DC Fiber (W) 20/130um DC Fiber (Q) or 25/250um DC Fiber (R)	
Fiber Tensile Load	N	5	
Maximum Optical Power (CW)	mW	300	
Operating Temperature	°C	0~50	
Storage Temperature	°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	(\varnothing)5.5x35
	Metal Box	mm	(L)120x(W)12x(H)10

Note: 1. SOP= State of Polarization

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

3. To add connectors, IL is 0.5dB higher, RL is 5dB lower.

4. 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>
1080-1080nm			S- Single Stage		M= Metal Box	E=10/125um SC Fiber	B= Bare Fiber	05=0.5m		N=Without Connector
			D= Dual Stage		Blank for SST	Q=20/130um DC Fiber	L= Loose Tube	10=1.0m		FC/APC=FC/APC Connector
						R=25/250um DC Fiber	2= 2mm Cable	15=1.5m		LC/PC=LC/PC Connector
						Blank for HI1060 Fiber	3= 3mm Cable	20=2.0m		SC/UPC=SC/UPC Connector