

1092nm Inline Optical Isolator for Pulse Power

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	1092	
Bandwidth	nm	+/-10	
Peak Isolation (Typ.)	dB	25	45
Isolation ($\lambda_c \pm 10\text{nm}$, 23°C, All SOP)	dB	≥ 22	≥ 40
Typical Insertion Loss (λ_c , 23°C, All SOP)	dB	1.7	2.6
Insertion Loss (λ_c , 0-50°C, All SOP)	dB	≤ 2.2	≤ 3.6
Optical Return Loss (Input/Output)	dB	50/45	50/45
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	
Max. Average Optical Power	mW	300	
Max. Peak Power for pulse	kW	0.1, 1, 2, 3, 5, 10, 20	
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. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
 5. 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	-H	NN	P	NN	-	(C)	(C)	C	NN	-	CC/CCC
	<i>Center Wavelength</i>		<i>Stage</i>		<i>Average Power</i>		<i>Peak Power</i>		<i>Package</i>	<i>Fiber Type</i>	<i>Fiber Sleeve</i>	<i>Fiber Length</i>		<i>Connector Type</i>
	1092-1092nm		S- Single Stage D- Dual Stage		03=300mW		01= 100W 1=1kW 5=5kW 10=10kW		M=Metal Box Blank for SST	E=10/125um SC Fiber Q=20/130um DC Fiber R=25/250um DC Fiber Blank for HI1060 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