

# 1040nm 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 ( $\lambda_c$ )	nm	1040	
Bandwidth	nm	+/-10	
Peak Isolation (Typ.)	dB	28	50
Isolation ( $\lambda_c \pm 10\text{nm}$ , 23°C, All SOP)	dB	$\geq 22$	$\geq 45$
Typical Insertion Loss ( $\lambda_c$ , 23°C, All SOP)	dB	2.6	4.3
Insertion Loss ( $\lambda_c$ , 0-50°C, All SOP)	dB	$\leq 3.2$	$\leq 6.4$
Optical Return Loss (Input/Output)	dB	50/50	50/50
Polarization Dependent Loss	dB	$\leq 0.15$	
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	100	
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)	$(\varnothing)5.5 \times 35$	
	Metal Box	$(L)120 \times (W)12 \times (H)10$	

- 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
Center Wavelength	Stage	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type						
1040-1040nm	S- Single Stage	01-100mW	01- 100W	M-Metal Box	E-10/125um SC Fiber	B- Bare Fiber	05-0.5m	N-Without Connector						
	D- Dual Stage		1-1kW	Blank for SST	Q-20/130um DC Fiber	L- Loose Tube	10-1.0m	FC/APC=FC/APC Connector						
			5-5kW		R-25/250um DC Fiber	2- 2mm Cable	15-1.5m	LC/PC=LC/PC Connector						
			10-10kW		Blank for HI1060 Fiber	3- 3mm Cable	20-2.0m	SC/UPC=SC/UPC Connector						