

1650nm 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	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. Average Optical Power	W	0.3, 0.5, 1, 2, 3, 5, 10	
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	Stainless Steel Tube (SST)	mm	(Φ)5.5x35 ($\leq 5\text{W}$), (Φ)6.0x48 ($> 5\text{W}$)
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. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
 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	-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
1650= 1650nm	S= Single Stage	1=1W	01= 100W	M= Metal Box	O=10/130 DC Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
	D= Dual Stage	2=2W	1=1kW	Blank for SST	T=12/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
		5=5W	5=5kW		G=25/300 DC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
		10=10W	10=10kW		Blank for SMF-28 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector