

## 1625nm 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	1625	
Bandwidth	nm	+/-10	
Isolation (23°C)	dB	$\geq 22$	$\geq 40$
Insertion Loss (23°C)	dB	$\leq 0.6$	$\leq 0.7$
Insertion Loss (0-50°C)	dB	$\leq 0.8$	$\leq 0.9$
Optical Return Loss (Input/Output)	dB	55/50	55/50
PDL	dB	$\leq 0.15$	
PMD	-	$\leq 0.25$	$\leq 0.10$
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	$\phi 5.5 \times L38$ ( $\leq 5W$ ), $\phi 6.0 \times L50$ ( $> 5W$ )
Dimension	Metal Box-M	mm	$L120 \times W12 \times H10$

- 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)

<b>FISO-NNNN</b>	-	<b>C</b>	<b>-H NN</b>	<b>P NN</b>	-	<b>(C)</b>	<b>(C)</b>	<b>C</b>	<b>NN</b>	<b>-CC/CCC</b>
<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>	
1625-1625nm		S= Single Stage D= Dual Stage	1-1W 2-2W 5-5W 10-10W	01-100W 1-1kW 5-5kW 10-10kW	M= Metal Box Blank for SST	O=10/130 DC Fiber T=12/130 DC Fiber G=25/300 DC Fiber Blank 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	