

# 1650nm High Power 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 ( $\lambda_c$ )	nm	1650	
Isolation ( $\lambda_c \pm 5\text{nm}$ , 23°C)	dB	$\geq 20$	$\geq 40$
Insertion Loss ( $\lambda_c$ , 23°C)	dB	$\leq 0.8$	$\leq 1.1$
Insertion Loss ( $\lambda_c$ , 0-50°C)	dB	$\leq 1.0$	$\leq 1.4$
Optical Return Loss (Input/Output)	dB	50/50	50/50
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. Optical Power (CW)	W	1, 2, 3, 5, 10	
Operating Temperature	°C	0~50	
Storage Temperature	°C	-40~85	
Package	Stainless Steel Tube (SST)	mm	( $\Phi$ )5.5x35 ( $\leq 5\text{W}$ ), ( $\Phi$ )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)

<b>FISO-NNNN</b>	-	<b>C</b>	-	<b>HP 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>Optical Power</i>		<i>Package</i>	<i>Fiber Type</i>	<i>Fiber Sleeve</i>	<i>Fiber Length</i>		<i>Connector Type</i>
1650= 1650nm		S= Single Stage		1=1W		M=Metal Box	O=10/130 DC Fiber	B= Bare Fiber	05=0.5m		N=Without Connector
		D= Dual Stage		2=2W		Blank for SST	T=12/130 DC Fiber	L= Loose Tube	10=1.0m		FC/APC=FC/APC Connector
				5=5W			G=25/300 DC Fiber	2= 2mm Cable	15=1.5m		LC/PC=LC/PC Connector
				10=10W			Blank for SMF-28 Fiber	3= 3mm Cable	20=2.0m		SC/UPC=SC/UPC Connector