

1650nm PM 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
Extinction Ratio	dB	≥ 18	
Working Mode	S Type	-	Can only work in Slow Axis
	F Type	-	Can work both in Slow Axis and Fast Axis
Fiber Type	-	PM1550 Panda Fiber, 10/125um PMDC Fiber (O) 12/130um PMDC Fiber (T), 20/130um PMDC Fiber (Q) 25/250um PMDC Fiber (R), 25/300um PMDC 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, ER is 2dB Lower, Connector key is aligned to slow axis.
 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)

FPIS-NNNN	- C	C	-H NN	P NN	-(C)	C	C	NN	-CC/CCC
Center Wavelength	Stage	Type	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
1650-1650nm	S= Single Stage	S= S Type	1-1W	01-100W	M= Metal Box	2-PM1550 Fiber	B= Bare Fiber	05-0.5m	N= Without Connector
	D= Dual Stage	F= F Type	2-2W	1-1kW	Blank for SST	0=10/125 PMDC Fiber	L= Loose Tube	10-1.0m	FC/APC=FC/APC Connector
			5-5W	5-5kW		T=12/130 PMDC Fiber	2= 2mm Cable	15-1.5m	LC/PC=LC/PC Connector
			10-10W	10-10kW		R=25/250 PMDC Fiber	3= 3mm Cable	20-2.0m	SC/UPC=SC/UPC Connector