

1120nm PM 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	1120	
Bandwidth	nm	+/-10	
Peak Isolation (Typ.)	dB	25	40
Isolation ($\lambda_c \pm 5\text{nm}$, 23°C)	dB	≥ 18	≥ 35
Insertion Loss (λ_c , 23°C)	dB	1.7	2.6
Insertion Loss (λ_c , 0-50°C)	dB	≤ 2.2	≤ 3.6
Optical Return Loss (Input/Output)	dB	50/45	50/45
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	-	PM980 Fiber, PM1060L Fiber (E) or PM1060L-FA Fiber (L) 10/125um PMDC Fiber (O), 15/130um PMDC Fiber (W) 20/130um PMDC Fiber (Q) or 25/250um PMDC Fiber (R)	
Fiber Tensile Load	N	5	
Max. Average Optical Power	mW	300	
Max. Peak Power for pulse	kW	0.1, 1, 2, 3, 5, 10, 15, 20	
Operating Temperature	°C	0~50	
Storage Temperature	°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	(\varnothing)5.5x35
	Metal Box	mm	(L)120x(W)12x(H)10

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
 - To add connectors, IL is 0.5dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
 - Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
 - 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
<i>Center Wavelength</i>	<i>Stage</i>	<i>Type</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>
1120-1120nm	S= Single Stage D= Dual Stage	S= S Type F= F Type	03=300mW 01=100W 1= 1kW 5=5kW 10=10kW M=Metal Box Blank for SST 2=PM980 Panda Fiber E=PM1060L Fiber Q=20/130 PMDC Fiber R=25/250 PMDC 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