

# 960~1000nm High Power PM Isolator for Pulse Power

## FEATURES

- High Isolation
- Epoxy-Free Optical Path
- High Reliability and Stability

## APPLICATIONS

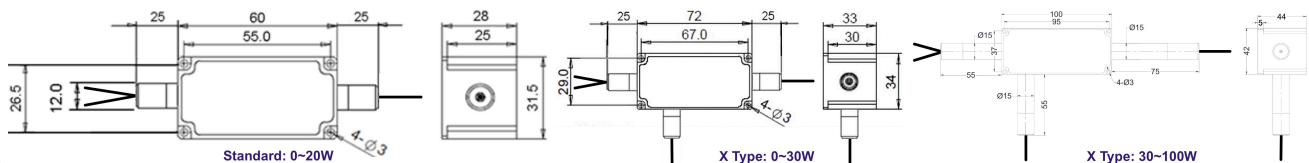
- Fiber Optic Amplifiers
- Fiber Optic Instruments
- Transmitters and Fiber Lasers

## SPECIFICATIONS

Parameter	Unit	High Power Type	
Center Wavelength ( $\lambda_c$ )	nm	975, 980, 990, 1000	
Operating Wavelength Range	nm	+/-10	
Peak Isolation (Typ.)	dB	28	
Min. Isolation (23°C)	dB	22	
Typical Insertion Loss ( $\lambda_c$ , 23°C)	dB	1.3	
Max. Insertion Loss ( $\lambda_c$ , 23°C)	dB	1.8	
Optical Return Loss (Input/Output)	dB	50/50	
Extinction Ratio (for FHIS)	dB	$\geq 18$	
Fiber Type of Port 3	S Type P Type Q Type	- - -	Corresponding SM Fiber Same Fiber to Port1&2, Slow axis align to Port 1 Same Fiber to Port1&2, Slow axis is 45° to Port 1
Configuration	-	-	Standard: 3-Port; X Type: 4-Port, Backward Power Guide
Fiber Type of Port 1 & Port 2	-	-	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 Type of 4 <sup>th</sup> Port (X Type)	-	-	Same Fiber, Corr. SM Fiber or 105/125um MM Fiber
Fiber Tensile Load	N	5	
Max. Average Optical Power	W	0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 30, 50, 60, 80, 100	
Max. Peak Power for Pulse	kW	0.1, 1, 2, 3, 5, 10, 15, 20	
Max. Backward Average Power	W	0.3, 0.5, 1, 2, 3, 5, 10	
Operating Temperature	°C	0~50	
Storage Temperature	°C	-20~75	

- 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.
  - Suggest to use Y type for >20W Optical Power or continuous backward power of  $\geq 500$ mW.
  - 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.
  - Package dimensions may be slightly different for different optical power.

## PACKAGE DIMENSION



## ORDERING INFORMATION (PN) FHIC=PBC/Isolator Hybrid; FHIS=PBS/Isolator Hybrid.

FHIC	-NNNN	- C	(C)	-H	NN	P NN	-(NN)	- C	C	NN	-CC/CCC
FHIS	Center Wavelength	3rd Port Fiber	4 <sup>th</sup> Port Fiber	Average Power	Peak Power	Backward Power	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type	
	975-975nm	S=S Type	Y= Same Fiber	05=500mW	01= 100W	05=500mW	2=PM980Fiber	B= Bare Fiber	05=0.5m	N=Without Connector	
	980-980nm	P=P Type	A=105/125um Fiber	1=1W	1=1kW	1=1W	E=PM1060L Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector	
	990-990nm	Q=Q Type	Blank for Standard	10=10W	10=10kW	10=10W	Q=20/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector	
	1000-1000nm			100=100W	20=20kW	Blank for 300mW	R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector	