

# 1020~1150nm High Power PBC(PBS)/Isolator Hybrid

## FEATURES

- High Isolation
- Low Insertion Loss
- High Reliability and Stability

## APPLICATIONS

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

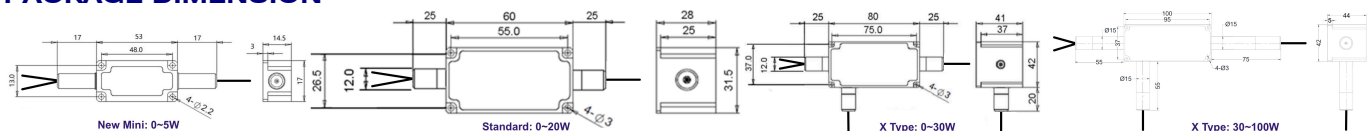


## SPECIFICATIONS

Parameter	Unit	High Power Type
Center Wavelength ( $\lambda_c$ )	nm	1020, 1030, 1040, 1053, 1064, 1070 1080, 1092, 1103, 1120, 1150
Operating Wavelength Range	nm	+/-10
Peak Isolation (Typ.)	dB	28
Min. Isolation (23°C)	dB	22
Typical Insertion Loss ( $\lambda_c$ , 23°C)	dB	1.0
Max. Insertion Loss ( $\lambda_c$ , 23°C)	dB	1.8
Optical Return Loss (Input/Output)	dB	50/50
Extinction Ratio (for FHIS)	dB	18
Fiber Type of Port 3	S Type	- Corresponding SM Fiber
	P Type	- Same Fiber to Port1&2, Slow axis align to Port 1
	Q Type	- Same Fiber to Port1&2, Slow axis is 45° to Port 1
Configuration	-	Standard: 3-Port; X Type: 4-Port, Backward Power Guide Out
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
Maximum Optical Power (CW)	W	1, 2, 3, 5, 10, 15, 20, 30, 50, 60, 80, 100
Max. Backward Optical Power (CW)	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 X type for >20W Optical Power or continuous backward power of ≥500mW.
  - 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 FHIS	-NNNN	- C	(C)	-HP NN	-(NN)	- C	C	NN	-CC/CCC
	Center Wavelength	3rd Port Fiber	4 <sup>th</sup> Port Fiber	Optical Power	Backward Power	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
	1030-1030nm	S-S Type	Y= Same Fiber	1-1W	05=500mW	2-PM980Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
	1064-1064nm	P-P Type	A=105/125um Fiber	3=3W	1=1W	E-PM1060L Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
	1080-1080nm	Q-Q Type	E=New Mini Package	10=10W	10=10W	Q=20/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
	1120-1120nm		Blank for Standard	100=100W	Blank for 300mW	R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector