

900~950nm High Power PM Optical Isolator

FEATURES

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

APPLICATIONS

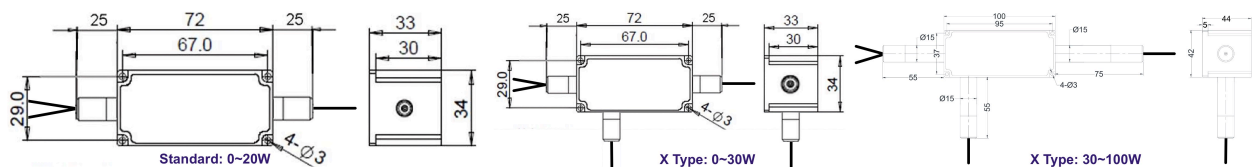
- Fiber Optic Amplifiers
- Fiber Optic Instruments
- Transmitters and Fiber Lasers

SPECIFICATIONS

Parameter	Unit	High Power Type
Center Wavelength (λ_c)	nm	915, 930, 940, 950
Operating Wavelength Range	nm	+/-10
Peak Isolation (Typ.)	dB	25
Min. Isolation (23°C)	dB	20
Typical Insertion Loss (λ_c , 23°C)	dB	1.3
Max. Insertion Loss (λ_c , 23°C)	dB	2.0
Optical Return Loss (Input/Output)	dB	45/45
Extinction Ratio (for FHIS)	dB	≥ 18
Fiber Type of Port 3	S Type	-
	P Type	-
	Q Type	-
Configuration	-	Corresponding SM Fiber
Fiber Type of Port 1 & Port 2	-	-
	-	-
	-	-
Fiber Type of 4 th Port (X Type)	-	Standard: 3-Port; X Type: 4-Port, Backward Power Guide
Fiber Tensile Load	-	-
	-	-
	-	-
Fiber Type of Port 1 & Port 2	-	PM850 Fiber, PM980 Fiber or PM1060L Fiber (E)
Fiber Type of 4 th Port (X Type)	-	10/125um PMDC Fiber (O), 15/130um PMDC Fiber (W)
Fiber Tensile Load	N	20/130um PMDC Fiber (Q) or 25/250um PMDC Fiber (R)
Maximum Optical Power (CW)	W	Same Fiber, Corr. SM Fiber or 105/125um MM Fiber
Max. Backward Optical Power (CW)	W	5
Operating Temperature	°C	1, 2, 3, 5, 10, 15, 20, 30, 40, 50, 60, 80, 100
Storage Temperature	°C	0.3, 0.5, 1, 2, 3, 5, 10
		0~50
		-20~75

- Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
 2. To add connectors, IL is 0.7dB 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. Suggest to use Y type for >20W Optical Power or continuous backward power of $\geq 500mW$.
 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.
 6. 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 th Port Fiber	Optical Power	Backward Power	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
	915~915nm	S=S Type	Y= Same Fiber	1~1W	05=500mW	2=PM850Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
	930~930nm	P=P Type	A=105/125um Fiber	3~3W	1=1W	H=PM980 Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
	940~940nm	Q=Q Type	Blank for Standard	10~10W	10=10W	E=PM1060L Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
	950~950nm			100~100W	Blank for 300mW	R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector