

1080nm PBC(PBS)/Isolator Hybrid 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	1080		
Bandwidth	nm	+/-10		
Peak Isolation (Typ.)	dB	30	50	
Isolation ($\lambda_c \pm 10\text{nm}$, 23°C)	dB	≥ 25	≥ 40	
Insertion Loss (λ_c , 23°C)	dB	1.4	2.2	
Insertion Loss (λ_c , 0-50°C)	dB	≤ 2.5	≤ 3.9	
Optical Return Loss (Input/Output)	dB	50/50	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	
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 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	$(\varnothing)5.5 \times 35$	
	Metal Box	mm	$(L)120 \times (W)12 \times (H)10$	

- 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) FHIC=PBC/Isolator Hybrid; FHIS=PBS/Isolator Hybrid.

FHIC FHIS	- NNNN	- C	C	-H	NN	P NN	-(C)	C	C	NN	-CC/CCC
	Center Wavelength	Stage	3rd Port Fiber	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type	
	1080-1080nm	S= Single Stage	S=S Type	03=300mW	01=100W	M= Metal Box	2=PM980 Fiber	B= Bare fiber	05=0.5m	N=Without Connector	
		D= Dual Stage	P=P Type		1= 1kW	Blank for SST	E=PM1060L Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector	
			Q=Q Type		5=5kW		Q=20/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector	
					10=10kW		R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector	