

# 1650nm Polarization Beam Combiner(Splitter)/Isolator Hybrid

## 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 ( $\lambda_c$ )	nm	1650	
Isolation ( $\lambda_c \pm 5\text{nm}$ , 23°C)	dB	$\geq 20$	$\geq 40$
Insertion Loss ( $\lambda_c$ , 23°C)	dB	$\leq 0.8$	$\leq 1.1$
Insertion Loss ( $\lambda_c$ , 0-50°C)	dB	$\leq 1.3$	$\leq 1.7$
Optical Return Loss (Input/Output)	dB	50/50	50/50
Extinction Ratio (for FHIS)	dB	$\geq 20$	
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	-	PM1550 Panda Fiber or PM1950 Fiber (V) 10/130um PMDC Fiber (O) or 25/250um PMDC Fiber (R)	
Fiber Tensile Load	N	5	
Max. Optical Power (CW)	mW	300	
Operating Temperature	°C	0~50	
Storage Temperature	°C	-40~85	
Package	Stainless Steel Tube (SST)	mm	( $\Phi$ )5.5x35
Dimension	Metal Box-M	mm	(L)120x(W)12x(H)10

- Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
  2. To add connectors, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
  3. 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	-(C)	C	C	NN	-CC/CCC
	Center Wavelength		Stage	3rd Port Fiber	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
	1650-1650nm		S= Single Stage D= Dual Stage	S=S Type P=P Type Q=Q Type	M=Metal Box Blank for SST	2=PM1550Fiber V=PM1950 Fiber O=10/130 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