

# 1850~1890nm Polarization Beam Combiner(Spitter)/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	Value
Working Wavelength ( $\lambda$ )	nm	1850 $\pm$ 10, 1870 $\pm$ 10, 1890 $\pm$ 10
Isolation ( $\lambda$ , 23°C)	dB	$\geq$ 20
Insertion Loss ( $\lambda$ , 23°C)	dB	$\leq$ 2.5
Optical Return Loss (Input/Output)	dB	50/45
Extinction Ratio	dB	$\geq$ 18
Fiber Type of Port 3	S Type	-
	P Type	-
	Q Type	-
Fiber Type of Port1 & Port2	-	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
Fiber Type of Port1 & Port2	-	PM1550 Panda Fiber or PM1950 Fiber (V) 10/130um PMDC Fiber (O) or 25/250um PMDC Fiber (R)
Fiber Tensile Load	N	5
Maximum Optical Power (CW)	mW	300
Operating Temperature	°C	0~50
Storage Temperature	°C	-40~85
Package	Stainless Steel Tube (SST)	mm
Dimension	Metal Box-M	mm

- 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	NN	-CC/CCC
	Center Wavelength	3rd Port Fiber	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
	1850- 1850nm	S=S Type	M=Metal Box	2=PM1550Fiber	B= Bare fiber	05=0.5m	N=Without Connector
	1870- 1870nm	P=P Type	Blank for SST	V=PM1950 Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
	1890- 1890nm	Q=Q Type		O=10/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
				R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector