

PBC(PBS)/Isolator for Pulse Power

FEATURES

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability

APPLICATIONS

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

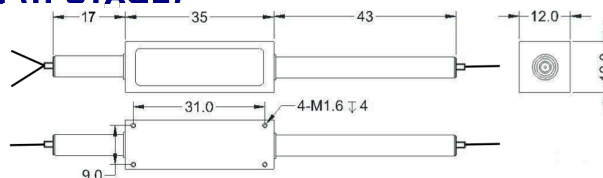


SPECIFICATIONS

Parameter	Unit	Single Stage	Dual Stage	H Stage
Center Wavelength (λ_c)	nm	1310, 1480, 1550, 1590		
Peak Isolation (Typ.)	dB	42	58	35
Isolation ($\lambda_c \pm 15\text{nm}$, 23°C)	dB	≥ 32	≥ 45	≥ 25
Insertion Loss (λ_c , 23°C)	dB	≤ 0.55	≤ 0.65	≤ 0.65
Insertion Loss ($\lambda_c \pm 20\text{nm}$, 0-70°C)	dB	≤ 0.7	≤ 0.9	≤ 0.9
Optical Return Loss (Input/Output)	dB	55/50	55/50	55/50
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	-	-	PM1310/1550 Panda Fiber, 10/125um PMDC Fiber (O)	
	-	-	12/130um PMDC Fiber (T), 20/130um PMDC Fiber (Q)	
	-	-	25/250um PMDC Fiber (R), 25/300um PMDC Fiber (G)	
Fiber Tensile Load	N	5		
Max. Average Optical Power	W	0.3, 0.5, 1, 2, 3, 5, 10	15, 20, 30	
Max. Peak Power for Pulse	kW	0.1, 1, 2, 3, 5, 10, 20		
Operating Temperature	°C	0~50		
Storage Temperature	°C	-40~85		
Package Dimension	Stainless Steel Tube (SST)	mm	$(\Phi)5.5 \times 35$ ($\leq 5\text{W}$), $(\Phi)6.0 \times 48$ ($> 5\text{W}$)	
	Metal Box-M	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 0.3dB 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.

PACKAGE DIMENSION (H STAGE)



ORDERING INFORMATION (PN) FHIC=PBC/Isolator Hybrid; FHIS=PBS/Isolator Hybrid.

FHIC	-NNNN-	C	C	-H	NN	P NN	-(C)	C	C	NN	-CC/CCC
FHIS	Center Wavelength	Stage	3rd Port Fiber	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type	
	1310=1310nm	S= Single Stage	S=S Type	05= 500mW	01=100W	M= Metal Box	2=PM1310/1550 Fiber	B= Bare Fiber	05=0.5m	N= Without Connector	
	1550=1550nm	D= Dual Stage	P=P Type	1= 1 Watts	1= 1kW	Blank for SST	0=10/125 PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector	
	1480=1480nm	H= H Stage	Q=Q Type	5= 5 Watts	5=5kW	or >10W	T=12/130 PMDC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector	
	1590=1590nm			10= 10 Watts	10=10kW		R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector	