

Optizone High Power Polarization Insensitive Isolator

Features

Optical Path Epoxy-free Design
 High Performance
 High Reliability
 Low Cost
 Special Process & Design

Applications

EDFAs
 Raman Amplifiers
 DWDM Systems
 Fiber Lasers
 Lab Research

Specifications

Parameters	Unit	Values	
		Single Stage	Dual Stage
Stage		Single Stage	Dual Stage
Center Wavelength	nm	1310, 1480, 1550, 1590, 1620	
Operating Wavelength Range	nm	±20	
Typ. Peak Isolation	dB	42	58
Min. Isolation at 23°C	dB	28	48
Typ. Insertion Loss at 23°C	dB	0.35	0.4
Max. Insertion Loss at 23°C, λ c	dB	0.5	0.6
Min. Return Loss (Input/Output)	dB	57 / 55	57 / 55
Max.PDL at 23°C	dB	0.08	0.1
Max.PMD	ps	0.2 ¹	0.05
Max. Optical Power (CW)	W	1, 3, 5, 10 or Specify	
Max. Peak Power for ns Pulse	kW	10	
Max. Tensile Load	N	5	
Fiber Type		SMF-28e Fiber	
Operating Temperature	°C	-5 to +70	
Storage Temperature	°C	-40 to +85	

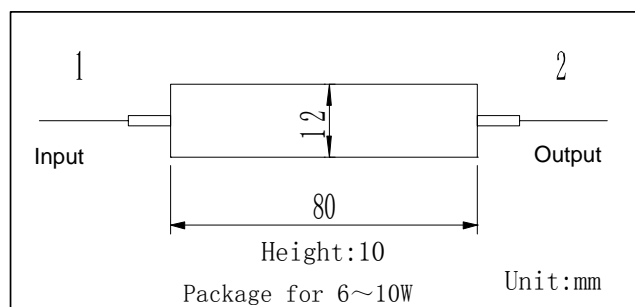
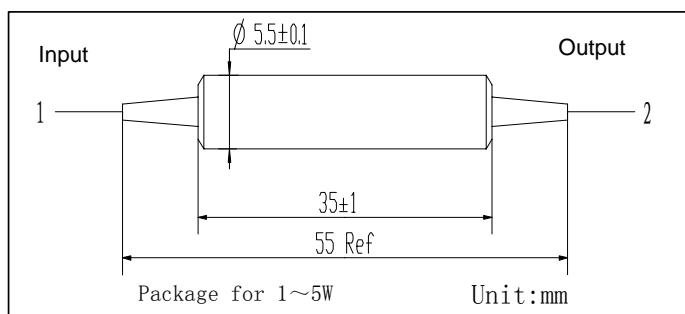
*PMD<0.05ps is available. Please refer to below ordering information.

*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher and RL will be 5dB lower and optical power is only 1W(CW).

*For pulse application please discuss with Optizone.

Package Dimensions



Ordering Information

HP11-①①-②-③-④-⑤⑤-⑥⑥-⑦

①①: Wavelength

- 31 - 1310nm
- 48 - 1480nm
- 55 - 1550nm
- SS - Specify

②: Stage

- S - Single Stage
- D - Dual Stage

③: Power Level

- 1 - 1W
- 3 - 3W
- 5 - 5W
- 10 - 10W
- S - Specify

④: PMD

- 1 - 0.05ps Max.
- 2 - Refer to above Spec.

⑤⑤: Connector Type on Port 1 & 2

- 1 - FC/UPC
- 2 - FC/APC
- 3 - SC/UPC
- 4 - SC/APC
- N - None
- S - Specify

⑥⑥: Fiber Jacket on Port 1 & 2

- B - 250um Bare Fiber
- L - 900um Loose Tube
- C - 3mm Cable
- S - Specify

⑦: Fiber Length

- 1 - 1.0m
- S - Specify

Features

- High Isolation
- Low Insertion Loss
- Large Aperture Features

Applications

- Fiber Optic Lasers
- Optical Transmitters & Transceivers
- Fiber Amplifiers
- Fiber Sensors

Specifications

Parameters	Unit	Values	
		Single Stage	Dual Stage
Stage			
Center Wavelength (λc)	nm	1310, 1480, 1550 or 1590	
Operating Wavelength Range	nm	±20	
Typ. Peak Isolation	dB	42	58
Min. Isolation at 23°C	dB	28	48
Typ. Insertion Loss at 23°C	dB	0.4	0.5
Max. Insertion Loss at 23°C, λc	dB	0.6	0.7
Min. Return Loss (Input/Output)	dB	55	55
Min. Extinction Ratio(only for F type)	dB	25	25
Min. Extinction Ratio(only for B type)	dB	22	22
Max. Optical Power (CW)	W	1, 3, 5, 10 or Specify	
Max. Peak Power for ns Pulse	kW	10	
Max. Tensile Load	N	5	
Fiber Type		PM Panda Fiber	
Operating Temperature	°C	-5 to +70	
Storage Temperature	°C	-40 to +85	

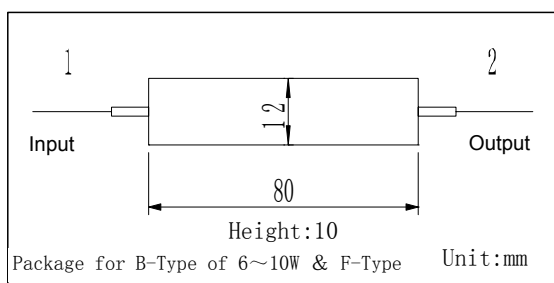
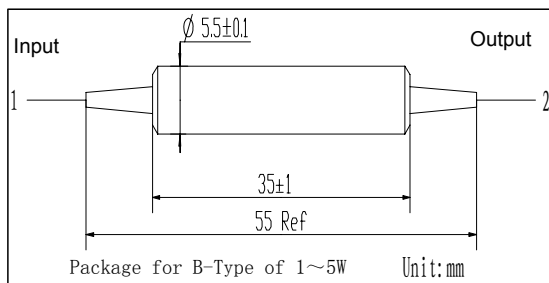
*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, ER will be 2dB lower, and handling power will be 1W(CW).

*The PM fiber and the connector key are aligned to the slow axis.

*For pulse application please discuss with Optizone.

Package Dimensions



Ordering Information

HPMI-①①-②-③-④-⑤⑤-⑥⑥-⑦

①①: Wavelength

- 31 - 1310nm
- 48 - 1480nm
- 55 - 1550nm
- SS - Specify

④: Axis Alignment

- F - Fast Axis Blocked
- B - Both Axis Working

⑥⑥: Fiber Jacket on Port 1 & 2

- B - 250um Fiber
- L - 900um Loose Tube
- S - Specify

②: Stage

- S - Single Stage
- D - Dual Stage

⑤⑤: Connector Type on Port 1 & 2

- 1 - FC/UPC
- 2 - FC/APC
- 3 - SC/UPC
- 4 - SC/APC
- N - None
- S - Specify

⑦: Fiber Length

- 0.8 - 0.8m
- S - Specify

③: Power Level

- 1 - 1W
- 3 - 3W
- 5 - 5W
- 10 - 10W
- S - Specify