



High Power Polarization Insensitive Isolator

The High Power Isolator series products include high power isolator and high power collimator. The high power isolator series includes in-line type, beam expanded isolator, fiber in and free space out isolator and free space isolator etc. they're characterized with low insertion loss, high isolation, high power handling, high return loss, excellent environmental stability and reliability. They are ideal for fiber laser and instrumentation applications.



Features

- ◆ High isolation
- ◆ Low insertion loss
- ◆ Excellent environmental stability and reliability

Applications

- ◆ Research
- ◆ DWDM/CWDM
- ◆ EDFAs
- ◆ Raman Amplifiers
- ◆ Fiber Lasers

Performance Specifications

Stage	Single Stage		Dual Stage	
	P	A	P	A
Grade	P	A	P	A
Operating Wavelength (nm)	1310, 1480, or 1550			
Bandwidth (nm)	±15		±20	
Typical Peak Isolation (dB)	42	42	58	55
Minimum Isolation * (dB)	32	32	44	43
Typical Insertion Loss** (dB)	0.40	0.50	0.55	0.65
Maximum Insertion Loss*** (dB)	0.60	0.70	0.70	0.80
Return loss (In/Out) (dB)	> 60/55	> 60/55	> 60/55	> 60/55
PDL (dB)	< 0.10	< 0.15	< 0.10	< 0.15
PMD (dB)	0.25(0.05 available upon request)			
Bandwidth (nm)	+15		+30	
Operating Temperature (°C)	-5 ~ +65			
Storage Temperature (°C)	-40 ~ +85			
Fiber Type	Corning SMF-28			
Fiber Length (Min.)	1 meter each end			
Package Dimension(mm)	Ø5.5X35(≤3W) 58X10X8(3~10W)			
Power Handling (W)	1, 2, 3, 5, 10			

*At 23° C over bandwidth.

** Does not include connector, splice and fiber-end fresher losses.

*** Including PDL, operating wavelength range, -20° C to +70° C.

**** *IL is 0.3 dB higher, RL is 5 dB lower for each connector added. Optical Power will be 1W only with connector added.

Order information

HPPII-①-②②-③-④④-⑤-⑥⑥-⑦-⑧

①	②②	③	④④	⑤	⑥⑥	⑦	⑧
Stage	wavelength	Grade	Optical Power	Fiber Diameter	Fiber Length	PMD	Power Type
S:Single D: Dual	13:1310nm 14:1480nm 15:1550nm XX:Other	P:P Grade A:A Grade	01:1W 05:5W 10:10W XX:Other	B:250um L:900um X: Others	05:0.5m 10:1.0m 15:1.5m X:Others	1:0.05 ps max 2: Refer to above spec	P:Pulse Appli- cation C:Continuous Wave