

High Power Pump Laser Protector

For High Power Fiber Lasers and Amplifiers

WSP's Pump Laser Protector is designed to block the unwanted back-reflected optical energies that damage the coating or chip of a pump laser while allows maximum transmission of fiber-coupled pump laser diode.

WSP's pump protectors are characterized with low insertion loss, high return loss, and work under high power condition. They are available at various wavelengths and fiber types (SMF, LMAF, MMF).

Other functions can be integrated into the pump protector as well; such optical isolator and tap splitting for monitoring back reflected powers.

WSP can provide customized designs to meet specialized applications.



Features:

- Low insertion loss
- High Isolation
- High power handling
- High extinction ratio
- Integration with other functions are available
- Extremely high power version available

Applications:

- High power fiber lasers and amplifiers

Technical Data

Parameter	Unit	Specifications		
Operating Wavelength	nm	980/1030-1064	980/1550	1018/1064
Pass Band	nm	900 ~ 1000	900 ~ 1000	1040 ~ 1070
Reflection Band	dB	1020 ~ 1120	1500 ~ 1600	1000 ~ 1030
IL	dB	< 0.6	< 0.6	< 0.8
Isolation	dB	>25	>25	>25
Return Loss	dB	> 30	> 30	> 30
Input Fiber		SMF: PM980, HI1060, SMF28, or specify LMAF: 10/125, 15/125, 20/130, 25/250, 30/250um, or specify MMF: 50/125, 62.5/125, 105/125, or specify		
Output Fiber		SMF: PM980, HI1060, SMF28, or specify LMAF: 10/125, 15/125, 20/130, 25/250, 30/250um, or specify MMF: 50/125, 62.5/125, 105/125, or specify		
Power Handling	W	1, 2, 3, 5, 0, 20 or specify		
Dimension	mm	Ø 5.5 x L35, or 70 x 12 x 9		
Operating Temperature	°C	0 -- 70		
Storage Temperature	°C	-40 -- 85		