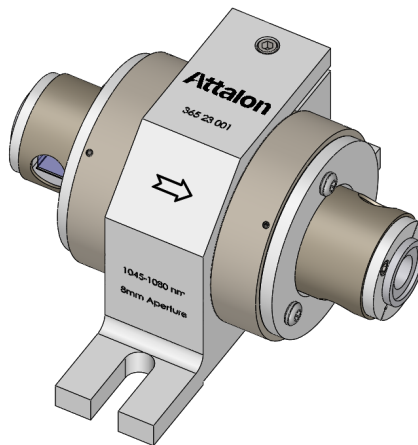


PAVOS

Faraday Rotators and Isolators – 1010 nm to 1080 nm

The PAVOS line of Faraday devices builds on over 30 years of experience in successfully protecting lasers from destabilizing and potentially damaging back reflections. These products have been specifically designed to meet the needs of high power and high energy 1 μm (1010 nm to 1080 nm) lasers.

Our PAVOS rotators and isolators deliver industry-best laser reliability and performance while providing superior isolation and maintaining very high transmission. Our PAVOS products rely on the Faraday effect from high Verdet constant, low absorption materials to rotate the plane of linearly polarized light in the forward direction and an additional 45° of non-reciprocal rotation in the reverse direction. The PAVOS is available as a rotator or an isolator.



FEATURES

- Completely passive; no tuning required
- Rugged design suitable for harsh operating environments
- Specified performance to 50 W; tested to >400 W
- Optically contacted PBS cubes for improved damage threshold
- All isolators contain rejected beam escape ports
- Input polarization adjustability

APPLICATIONS

- Ultrafast, pulsed, and CW lasers
- Microelectronics
- Medical Systems and Device Manufacturing
- Micromachining
- Particle Acceleration

OPTIONS

- Input/output waveplates
- Precision mounting
- Precision rejected beam pointing
- Customization

Attalon

Specifications	PAVOS+	PAVOS (Small Aperture)		PAVOS (Large Aperture)	
	Rotator	Rotator	Isolator	Rotator	Isolator
Clear Aperture (mm)	4	5	5	8, 12, 15, 20, 25, 35, 45	8, 12, 15, 20, 25, 35, 45
Wavelength(s) ¹ (nm)	1030, 1064	1030, 1064	1030, 1064	1030, 1064	1030, 1064
Transmission (%)	98	95	95	98	92
Isolation ² (dB)	N/A	N/A	33 (minimum) 37 (typical)	N/A	30 (minimum) 35 (typical)
Extinction ² (dB)	33 (minimum)	35 (minimum)	N/A	30 (minimum)	N/A
Max. Rated Power Handling (W)	50				
Damage Threshold	10 J/cm ² at 10 ns 1 J/cm ² at 8 ps 1 MW/cm ² CW				

Notes:

- Other wavelengths available upon request.
- At operating wavelength and temperature (default = 22 °C).

