MICA RETARDERS

We manufactures and stocks ¼-wave and ½-wave retarders in common laser wavelengths, cemented between protective glass cover plates. We do not AR coat mica retarders, as internal transmittance is ~85%. However, mica retarders are very high quality plates, with uniform retardance across the aperture, and wavefront distortion <¼-wave. Because of the natural absorption of mica, insertion losses become quite high with increasing wavelength (the plate becomes thicker). Thus, for practicality, we do not recommend mica retarders beyond ~850 nm. Mica Retarders are guaranteed to be accurate within 1% of peak value.

λ/4-wave Catalog Number*	*λ/2-wave* Catalog Number*	*Wavelength*	*Bandwidth*	*Field of View*	*Temperature Stability*
RA-¼-488	RA-½-488	488 nm	± 6 nm	> ± 2°	< 0.1 nm/°C
RA-¼-514	RA-½-514	514 nm	± 6 nm	> ± 2°	< 0.1 nm/°C
RA-¼-633	RA-½-633	633 nm	± 6 nm	> ± 2°	< 0.1 nm/°C
RA-¼-670	RA-½-670	670 nm	± 6 nm	> ± 2°	< 0.1 nm/°C
RA-¼-780	RA-½-780	780 nm	± 6 nm	> ± 2°	< 0.1 nm/°C

*value assemes a tolerable phase retardation eror of 1%

MECHANICAL SPECIFICATIONS	
Material	Mica between glass
Retardance	±1%
Parallel	2 minutes