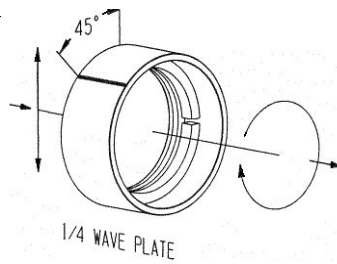


Retarders (Waveplates)

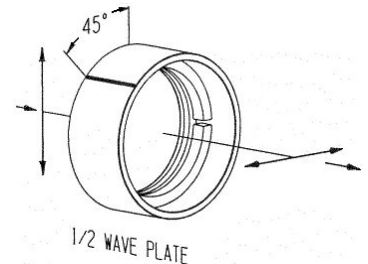
Achromatic (VIS/NIR)

General Specifications

Substrate Material : Crystal quartz/MgF₂
 Surface Qual UV : 10 - 5 laser quality
 Diameter Tol VIS-NIR-IR : +0.00 / -0.25 mm
 Clear Aperture : 12/22mm dia.
 Transmitted Wavefront : $\lambda / 10$ at 633nm

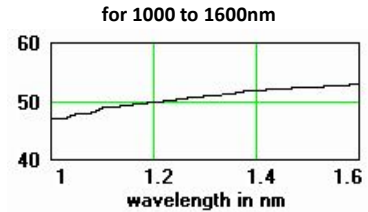
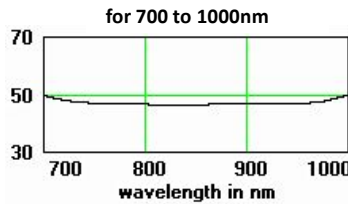
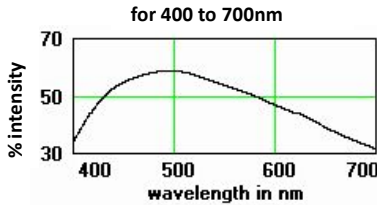


quarter wave retarder with fast axis marked on the cell

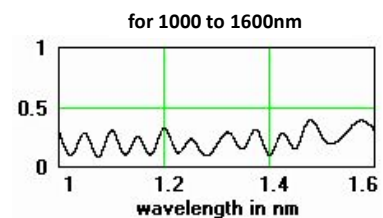
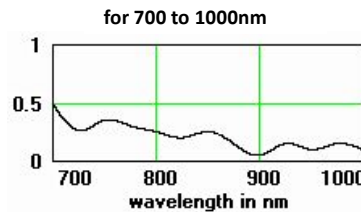
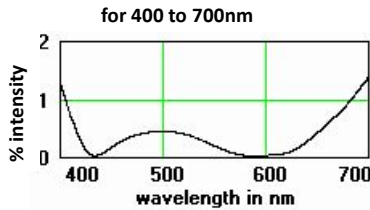


half wave retarder with fast axis marked on the cell

Quarter wave achromatic optimized



Half wave achromatic optimized



Model Specifications

Catalogue number	Wavelength	Retardation in Waves	Clear Aperture (mm)	Type	Mount Diameter (inch)	
					Outside Diameter	Length
					± 0.002	± 0.005
WPAC4-12-400-700-HEAR	400-700	1/4 wave	12	Cemented	0.75	0.5
WPAC4-12-700-1000-HEAR	700-1000	1/4 wave	12	Cemented	0.75	0.5
WPAC4-12-1000-1600-HEAR	1000-1600	1/4 wave	12	Cemented	0.75	0.5
WPAC4-12-400-700-HEAR	400-700	1/2 wave	12	Cemented	0.75	0.5
WPAC4-12-700-1000-HEAR	700-1000	1/2 wave	12	Cemented	0.75	0.5
WPAC4-12-1000-1600-HEAR	1000-1600	1/2 wave	12	Cemented	0.75	0.5
WPAC4-22-400-700-HEAR	400-700	1/4 wave	22	Cemented	1.125	0.5
WPAC4-22-700-1000-HEAR	700-1000	1/4 wave	22	Cemented	1.125	0.5
WPAC4-22-1000-1600-HEAR	1000-1600	1/4 wave	22	Cemented	1.125	0.5
WPAC4-22-400-700-HEAR	400-700	1/2 wave	22	Cemented	1.125	0.5
WPAC4-22-700-1000-HEAR	700-1000	1/2 wave	22	Cemented	1.125	0.5
WPAC4-22-1000-1600-HEAR	1000-1600	1/2 wave	22	Cemented	1.125	0.5
MWPAA4-12-400-700-HEAR	400-700	1/4 wave	12	Air Spaced	0.75	0.5
MWPAA4-12-700-1000-HEAR	700-1000	1/4 wave	12	Air Spaced	0.75	0.5
MWPAA4-12-1000-1600-HEAR	1000-1600	1/4 wave	12	Air Spaced	0.75	0.5
MWPAA4-12-400-700-HEAR	400-700	1/2 wave	12	Air Spaced	0.75	0.5
MWPAA4-12-700-1000-HEAR	700-1000	1/2 wave	12	Air Spaced	0.75	0.5
MWPAA4-12-1000-1600-HEAR	1000-1600	1/2 wave	12	Air Spaced	0.75	0.5
MWPAA4-22-400-700-HEAR	400-700	1/4 wave	22	Air Spaced	1.125	0.5
MWPAA4-22-700-1000-HEAR	700-1000	1/4 wave	22	Air Spaced	1.125	0.5
MWPAA4-22-1000-1600-HEAR	1000-1600	1/4 wave	22	Air Spaced	1.125	0.5
MWPAA4-22-400-700-HEAR	400-700	1/2 wave	22	Air Spaced	1.125	0.5
MWPAA4-22-700-1000-HEAR	700-1000	1/2 wave	22	Air Spaced	1.125	0.5
MWPAA4-22-1000-1600-HEAR	1000-1600	1/2 wave	22	Air Spaced	1.125	0.5

* Achromatic cemented waveplates are supplied unmounted. Optional mounts for these are available upon request.

**HEAR Coating : High Efficiency Broad-Band Ant-Reflection Coating