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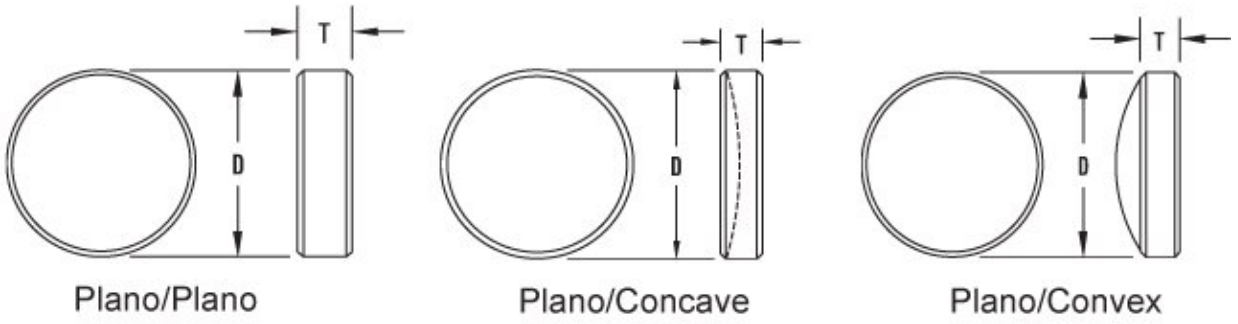
Mirrors » Laser-Line RMAX Mirrors

Mirrors are used in a wide range of beam steering, focusing and collimating applications. RMAX Mirrors utilize multi-layer, dielectric thin films.

Laser-Line RMAX Mirrors are designed for high reflectance at a single laser wavelength. High power coating designs are standard for select wavelengths.

Substrates are available with plano/plano, plano/concave, and plano/convex surfaces.



RMI Standard Specifications

Materials:	BK7, UVFS, FS, CaF_2,

	Si, Cu, Mo, Supremax 33, Zerodur
Angle of Incidence:	0º or 45º
Surface Figure:	Plano [Concave/Convex]
BK7, UVFS, FS:	λ/20 [λ/10] at 633 nm
CaF_2:	λ/4 [λ/2] at 633 nm
Si, Cu, Mo:	λ/40 [λ/20] at 10.6 µm
Supremax 33, Zerodur:	λ/20 [λ/10] at 633 nm
Surface Quality:	Find Grind, S2
BK7, UVFS, FS:	10-5 (S1)
CaF_2:	20-10 (S1)
Si, Cu, Mo:	40-20 (S1)
Supremax 33, Zerodur:	10-5 (S1)
Diameter Tolerance:	+ 0.000", – 0.010"
Thickness Tolerance:	± 0.010"
Radius Tolerance:	± 0.5%
Wedge:	≤ 3 arc minutes
Bevels:	0.02" at 45º typical
Clear Aperture:	Central 85% of diameter
Reflectance:	± 0.5%
Laser-Line RMAX:	Unpolarized
193 nm	R ≥ 97% at 0º R ≥ 96.5% at 45º
248, 266, 308 nm	R ≥ 99.5% at 0º R ≥ 99.2% at 45º
355, 532, 1064 nm	R ≥ 99.7% at 0º R ≥ 99.4% at 45º

[Note: Thicknesses listed are exact for plano/plano substrates. For plano/concave and plano/convex substrates, center thickness (CT) depends on the radius of curvature.]

More Mirrors

Request Quote

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The cornerstone of the RMI service philosophy is a collaborative approach with our customers to solve even the most technically challenging requirements. Working with clients in the early stages of development, we transition prototype concepts to efficient and manufacturable solutions.