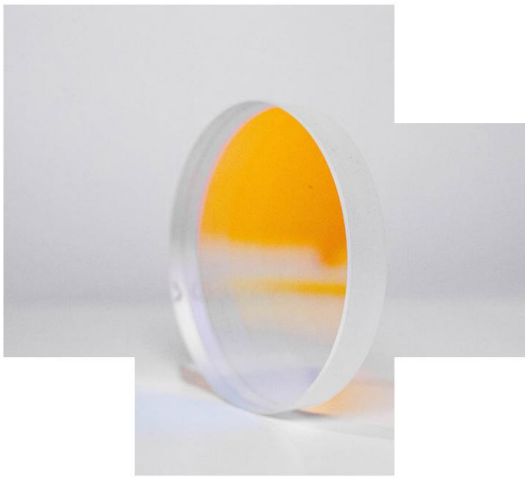
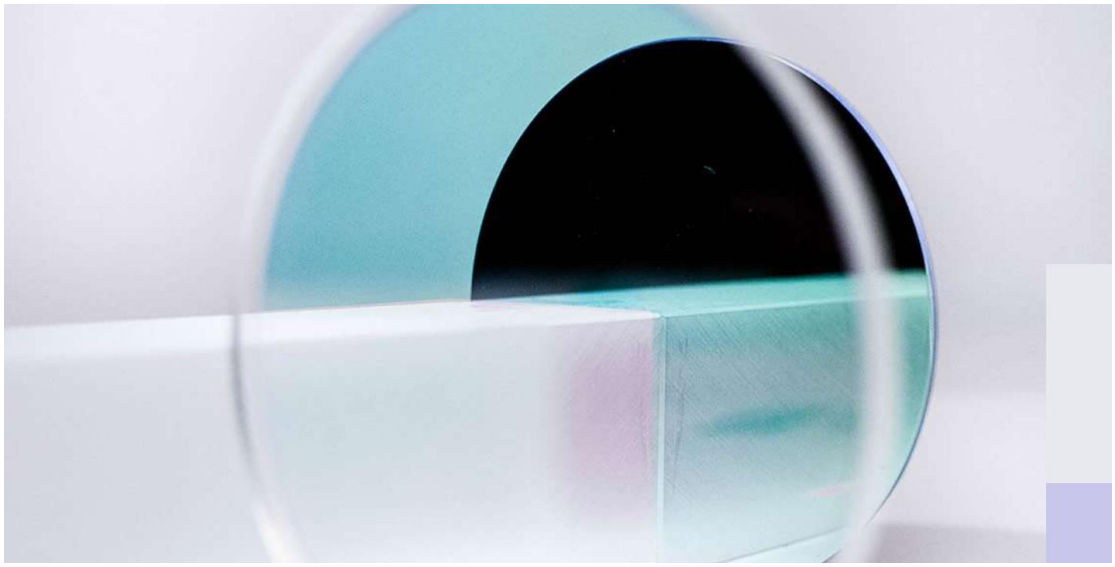
ULTRAFAST & TI: SAPPHIRE MIRRORS

ARO designed a comprehensive set of specially designed mirrors for ultrafast applications. E-Max mirrors are optimized to attain the highest pulse Energy damage threshold. B-Max coatings are optimized to deliver the Broadest possible bandwidth. We also offer a unique spectral shaping filter and optical flat mirror solutions.

TI:SAPPHIRE MIRRORS

Our ultrafast mirrors are designed to deliver superior performance for demanding beam steering tasks in Ti:Sapphire laser applications. Close cooperation between our design staff and leading ultrafast optics researchers has enabled our optical fabrication technology develop to precision optics that deliver an optimum combination of high reflectivity, broad spectral bandwidth, excellent laser damage resistance, and minimal group delay dispersion.





E-MAX & B-MAX MIRRORS

ARO supplies two standard series of ultrafast laser mirrors. Our B-Max coatings are optimized to deliver the Broadest possible bandwidth, while our E-Max reflectors are specifically optimized to attain the highest pulse Energy damage threshold. In addition to these stock components, we can readily produce precision optics customized in virtually

every aspect, including size, shape, substrate material, surface specifications and performance characteristics. Please contact our technical sales department to discuss your custom optics requirements.

High bandwidth B-Max coatings at 800 nm

Part Number	Wavelength (nm)	Diameter (mm)	Thickness (mm)	Angle of Incidence	Reflectivity (%)
MR6020	800 (B-Max)	25.4	9.525	0°	99.5
MR6040	800 (B-Max)	25.4	9.525	45°	99.5
MR6060	800 (B-Max)	50.8	9.525	0°	99.5
MR6080	800 (B-Max)	50.8	9.525	45°	99.5

High laser damage E-Max Coatings at 800 nm

Part Number	Wavelength (nm)	Diameter (mm)	Thickness (mm)	Angle of Incidence	Reflectivity (%)
MR6220	800 (E-Max)	25.4	9.525	0°	99.5
MR6240	800 (E-Max)	25.4	9.525	45°	99.5
MR6260	800 (E-Max)	50.8	9.525	0°	99.5
MR6280	800 (E-Max)	50.8	9.525	45°	99.5

SPECIFICATIONS

- Clear Aperture: 85%
- Wedge:<5 arc minutes
- Flatness: λ/10 at 633 nm
- Surface Quality: 10-5
- Material: Fused Silica
- Thickness Tolerance: ±0.25 mm
- Chamfer: 0.50 mm at 45°
- Diameter Tolerance: +0.00, -0.13 mm
- Rear Surface: Commercial Polish