

## E-max - High Damage Threshold 800 nm Ultrafast Laser Mirrors for 45° Incidence

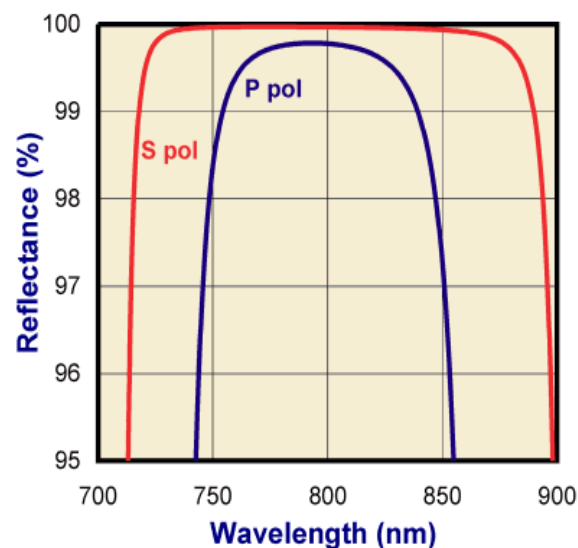
These high performance mirrors are intended to deliver very high damage resistance for general purpose beam steering tasks in Ti:S ultrafast laser based applications.

### Advantages

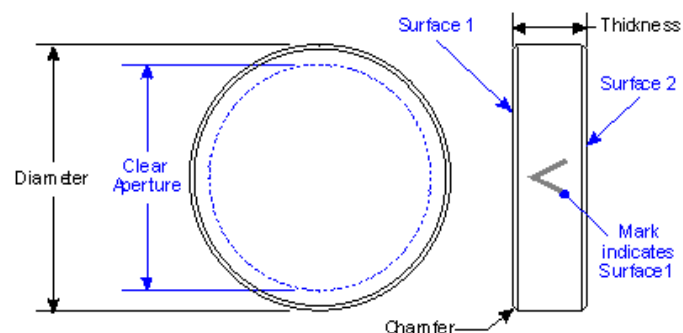
- Superior damage resistance
- Wide spectral bandwidth
- Minimal group velocity dispersion
- High reflectivity
- Excellent mechanical durability

### Common Specifications

|                              |                                      |
|------------------------------|--------------------------------------|
| Chamfer                      | 0.50 mm at 45°                       |
| Clear Aperture               | 85%                                  |
| Diameter Tolerance           | +0.00, -0.13 mm                      |
| Front Surface Flatness       | $\lambda/10$ at 633 nm               |
| Material                     | Fused Silica                         |
| Rear Surface                 | Commercial Polish                    |
| Surface Quality              | 10-5                                 |
| Thickness Tolerance          | $\pm 0.25$ mm                        |
| Wedge                        | <5 arc minutes                       |
| Surface 1 Flatness           | $\lambda/10$ at 633 nm               |
| Surface 1 Surface Quality    | 10-5                                 |
| Surface 1 Coating            | $\geq 99.5\%$ reflectivity at 800 nm |
| Surface 1 Angle Of Incidence | 45°                                  |
| Surface 2 Flatness           | Commercial polish                    |
| Surface 2 Surface Quality    | Commercial polish                    |
| Surface 2 Coating            | None                                 |



| Part Number | Diameter | Thickness |
|-------------|----------|-----------|
| MR6240      | 25.4     | 9.525     |
| MR6280      | 50.8     | 9.525     |



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