

TECHSPEC® 5 x 5mm Protected Gold Coated, λ/10 ZERODUR® Mirror

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TECHSPEC ZERODUR λ/10 First Surface Mirrors

Stock #17-724 **1 In Stock**

1 A\$203^{.20}

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| Volume Pricing | |
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| Qty 1-5 | A\$203.20 each |
| Qty 6-25 | A\$161.60 each |
| Qty 26-49 | A\$152.00 each |
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| Product Downloads | |
|-------------------|------------------------------|
| STEP:step | Curve:pdf |
| PDF Drawing:pdf | IGES:igs |
| eDrawing:eprt | |
| EO Spec Sheet | Download All |

General

| | |
|--------------|-------------|
| Type: | Flat Mirror |
|--------------|-------------|

Physical & Mechanical Properties

| | | | |
|------------------------------|-------------------|-------------------------|--------------------------|
| Thickness (mm): | 2.00 ±0.20 | Dimensions (mm): | 5.0 x 5.0 +0.00/-0.20 |
| Back Surface: | Commercial Polish | Bevel: | Protective as needed |
| Clear Aperture (%): | 90 | Edges: | Ground |
| Length (mm): | 5.00 | Width (mm): | 5.00 |
| Parallelism (arcsec): | 30 | | |

Optical Properties

| | | | |
|--------------------------------|-----------------|---------------------------------------|---|
| Coating Type: | Metal | Coating: | Protected Gold (700-10000nm) |
| Surface Flatness (P-V): | λ/10 | Wavelength Range (nm): | 700 - 10000 |
| Substrate: ⓘ | ZERODUR® | Coating Specification: | R _{avg} >96% @ 700 - 2000nm R _{avg} >96% @ 2000 - 10,000nm |
| Surface Quality: | 20-10 | Damage Threshold, Reference: ⓘ | 0.8 J/cm ² @ 1064nm, 10ns |

Material Properties

| | |
|---|-----|
| Coefficient of Thermal Expansion CTE (10⁻⁶/°C): | 0.1 |
|---|-----|

Regulatory Compliance

RoHS 2015: **Compliant**

Certificate of Conformance: [View](#)

Reach 247: **Compliant**

Need different specs or modifications?

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

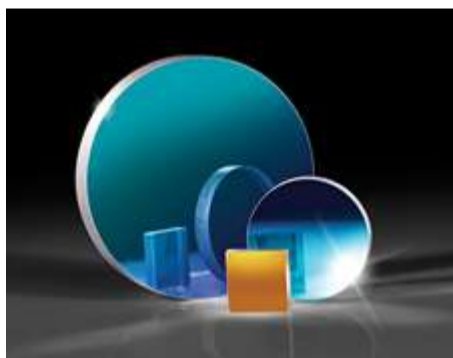
Product Details

- Precision ZERODUR® Substrates
- $\lambda/10$ Flatness
- Low Coefficient of Thermal Expansion

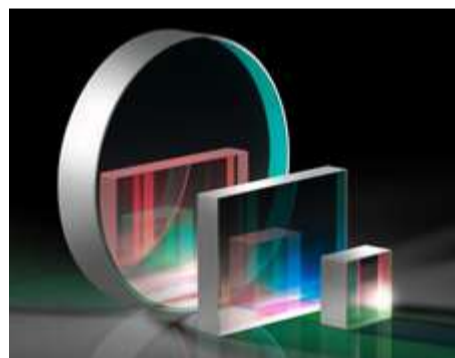
TECHSPEC® ZERODUR® $\lambda/10$ First Surface Mirrors are well suited for applications where temperature fluctuation is a concern. The ZERODUR® substrates have a coefficient of thermal expansion (CTE) of $\pm 0.10 \times 10^{-6}/^{\circ}\text{C}$, which is an order of magnitude lower than most glass types. The low CTE allows these mirrors to have a consistent reflected wavefront, even when exposed to environments with varying temperature or illumination sources with changing intensity. TECHSPEC® ZERODUR® $\lambda/10$ First Surface Mirrors feature precision polished substrates with $\lambda/10$ flatness and 20-10 surface quality. Multiple metallic and enhanced metallic coating options are available, allowing for these mirrors to be easily integrated into applications in both the visible and infrared spectrum.

Note: Surface flatness is measured before coating.

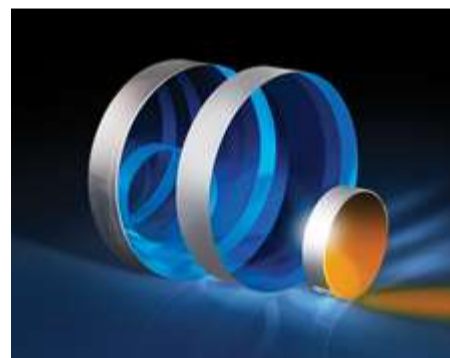
Related Products



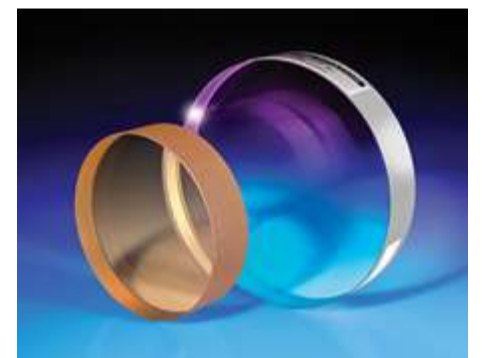
$\lambda/10$ First Surface Mirrors



Broadband Dielectric $\lambda/10$ Mirrors

















Precision Optical Flat Mirrors



Single Surface Optical Flats

Compatible Mounts

| | Title | Type | Compare | Stock Number | Price | Buy |
|---|---|-----------------------|---------|--------------|--|---|
| MORE+  | 1.5" Reverse Angle Mirror Mount | Adjustable - Tip-Tilt | | #37-922 | A\$137.60 Request Quote | 12 In Stock <input type="text" value="1"/>  |
| MORE+  | 25mm sq - Rectangular Bar Clamp | Fixed | | #54-994 | A\$172.80 Request Quote | 8 In Stock <input type="text" value="1"/>  |
| MORE+  | 60mm sq - Rectangular Bar Clamp | Fixed | | #54-995 | A\$201.60 Request Quote | 20+ In Stock <input type="text" value="1"/>  |
| MORE+  | Standard Model, Threaded Base - Metric Mirror Mount | Adjustable - Tip-Tilt | | #56-341 | A\$224.00 Request Quote | 20+ In Stock <input type="text" value="1"/>  |

| | Title | Type | Compare | Stock Number | Price | Buy |
|---|--|-----------------------|---------|--------------|--|---|
| MORE+  | Standard Model, Slotted Base - Metric Mirror Mount | Adjustable - Tip-Tilt | | #56-342 | A\$224.00 Request Quote | 20+ In Stock <input type="text" value="1"/>  |
| MORE+  | Top-Screw Model, Threaded Base - Metric Mirror Mount | Adjustable - Tip-Tilt | | #56-343 | A\$297.60 Request Quote | 4 In Stock <input type="text" value="1"/>  |
| MORE+  | Top-Screw Model, Slotted Base - Metric Mirror Mount | Adjustable - Tip-Tilt | | #56-344 | A\$297.60 Request Quote | 20+ In Stock <input type="text" value="1"/>  |

Check out our full selection of mounts [here](#).

Resources

Media Type

- Application Note
- Video
- FAQ
- Glossary

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CASE STUDIES

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APPLICATION NOTE

Metallic Mirror Coatings

VIDEO

Optical Mirrors Review

? FAQ

What is the difference between a first-surface...

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