

TECHSPEC®

40mm Dia. 750 - 1100nm Broadband λ/10 ZERODUR® Mirror

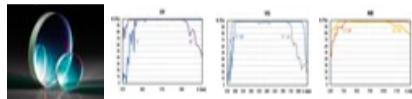


Stock #24-041 **2 In Stock**

1

C\$404^{.60}

ADD TO CART



Volume Pricing	
Qty 1-5	C\$404.60 each
Qty 6-25	C\$324.80 each
Qty 26-49	C\$303.80 each
Need More?	Request Quote

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

Diameter (mm): 40.00 +0.00/-0.20	Thickness (mm): 5.00 ±0.20
Back Surface: Commercial Polish	Bevel: Protective as needed
Clear Aperture (%): 90	Edges: Ground
Parallelism (arcsec): 30	

Optical Properties

Coating Type: Dielectric	Coating: Dielectric Mirror (750-1100nm)
Surface Flatness (P-V): λ/10	Wavelength Range (nm): 750 - 1100
Substrate: ZERODUR®	Angle of Incidence (°): 0-45
Coating Specification: R _{avg} >98% @ 750 - 1100nm (0 - 45°) R _{avg} >99% @ 750 - 1100nm (0°)	Surface Quality: 20-10
Damage Threshold, By Design: 1 J/cm ² @ 1064nm, 20ns, 20Hz	

Material Properties

Coefficient of Thermal 0.1

Expansion CTE
($10^{-6}/^{\circ}\text{C}$):

Regulatory Compliance

Certificate of Conformance: [View](#)

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

- ZERODUR® Substrates Provide Near Zero Thermal Expansion
- Enhanced Reflectivity and LDT over Metallic Coatings
- UV, Visible, and NIR Reflective Coatings Designed for 0-45° AOI
- **Metallic Coated ZERODUR®** Mirrors Also Available

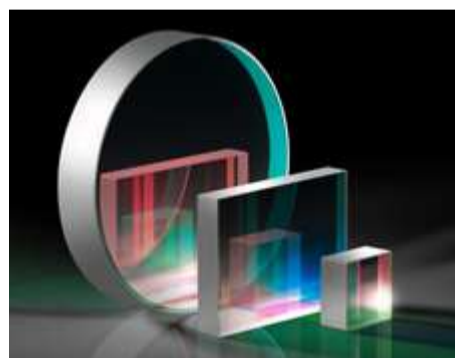
TECHSPEC® Broadband Dielectric ZERODUR® $\lambda/10$ Mirrors combine high reflectivity over broad wavelength ranges with a near zero coefficient of thermal expansion (CTE) making them ideal for laser applications where temperature fluctuations could impact optical performance. The ZERODUR® substrates 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, including fused silica. Featuring coatings designed for 0-45° AOI and >99% average reflectivity, these dielectric coated mirrors provide higher reflectivity than metal coated mirrors, increasing system throughput by minimizing energy loss. TECHSPEC® Broadband Dielectric ZERODUR® $\lambda/10$ Mirrors are ideal for beam steering and beam folding applications from the UV to NIR, including [fluorescence microscopy](#), flow cytometry, and [laser communications](#).

Technical Information

Related Products



ZERODUR® $\lambda/10$ First Surface Mirrors



Broadband Dielectric $\lambda/10$ Mirrors

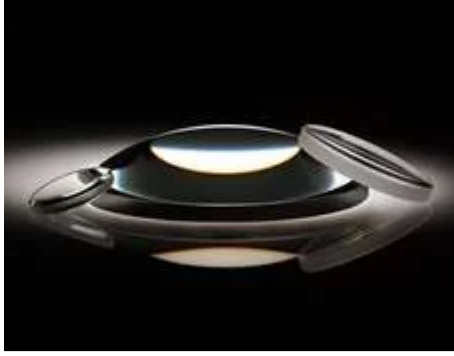


Laser Sources



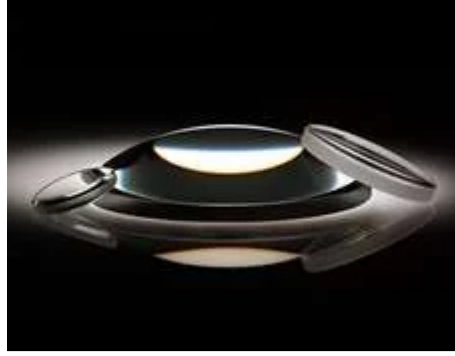
Kinematic Optical Mirror Mounts

Frequently Purchased Together



#48-766 - 25.0mm Dia. x 25.0mm FL, NIR I Coated, Plano-Convex Lens
C\$69.65

Qty



#48-786 - 30.0mm Dia. x 100.0mm FL, NIR I Coated, Plano-Convex Lens
C\$80.50

Qty



#12-228 - 25 x 25mm, 1.1mm Thick, Uncoated, Gorilla Glass® Window
C\$46.90

Qty



#18-301 - 25 x 25mm, 0.4mm Thick, SCHOTT D263® Teco Window
C\$39.90

Qty

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
	40.0mm Optic Dia., Optic Mount	Fixed		#64-566	C\$45.85 Request Quote	10 In Stock <input type="text" value="1"/>
	9.5 - 73.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#36-605	C\$116.20 Request Quote	20+ In Stock <input type="text" value="1"/>
	7.0 - 40.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-676	C\$148.40 Request Quote	20+ In Stock <input type="text" value="1"/>
	10.0 - 60.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-530	C\$151.20 Request Quote	CONTACT US <input type="text" value="1"/>
	19.5 - 108.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#03-670	C\$159.60 Request Quote	20+ In Stock <input type="text" value="1"/>
	7.0 - 67.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-669	C\$162.40 Request Quote	20+ In Stock <input type="text" value="1"/>
	8.0 - 118.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-666	C\$168.00 Request Quote	20+ In Stock <input type="text" value="1"/>
	5.0 - 100.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-078	C\$574.00 Request Quote	CONTACT US <input type="text" value="1"/>

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

Resources

Media Type

- Application Note
- Technical Tool
- FAQ
- Glossary
- Video
- Trending in Optics
- Published Article
- Scientific Paper

APPLICATION NOTE
An Introduction to Optical Coatings

TECHNICAL TOOL
Gaussian Beams Calculator

CASE STUDIES
Laser Optics for Eye Surgery

TRENDING IN OPTICS
Increasing Challenges for Sourcing Laser Optics...

CASE STUDIES
Using IR Spectroscopy for Counterfeit Drug Detection

APPLICATION NOTE
Effects of Laser Mirror Surface Flatness

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