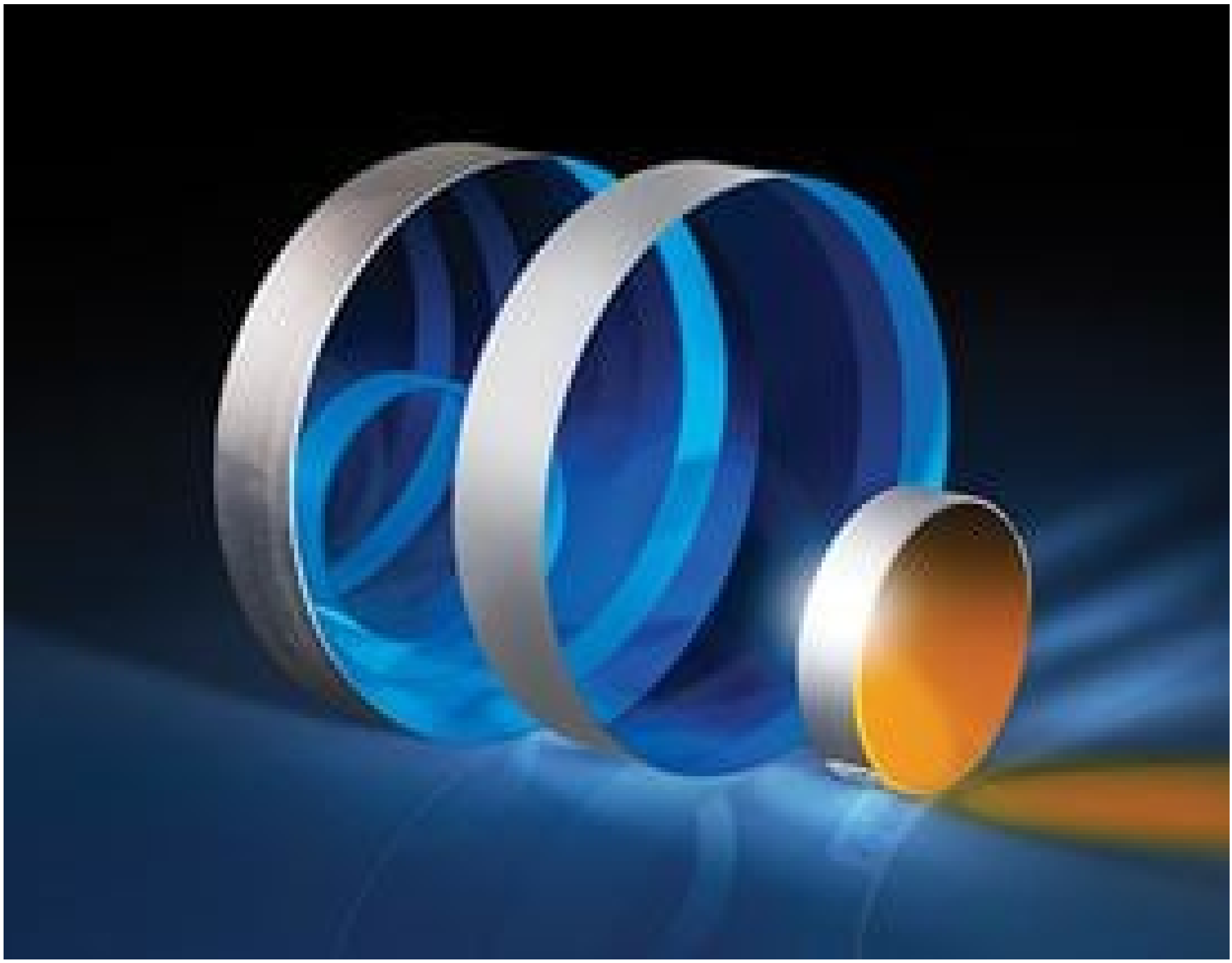
TECHSPEC® 4" Dia. Enhanced Aluminum, λ/20 Flat ZERODUR®



Stock **#48-118-533** **1 In Stock**

- 1 + **S$1,701.00**

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Volume Pricing	
Qty 1-5	**S$1,701.00** each
Qty 6-10	**S$1,512.00** each
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SPECIFICATIONS

General

Note:
Flatness is specified as Peak to Valley

Type:

Flat Mirror

Physical & Mechanical Properties

Diameter (mm): 101.60 +0.0/-1.02	**Back Surface:** Commercial Polish
Diameter Tolerance (inches): +0.0/-0.04	**Clear Aperture CA (mm):** 91.44
Thickness (mm): 19.10 ±1.5	

Optical Properties

Surface Flatness (P-V): λ/20	**Substrate:** ZERODUR®
Surface Quality: 60-40	**Coating Specification:** R_{avg} >95% @ 450 - 650nm
Coating: Enhanced Aluminum (450-650nm)	**Coating Type:** Metal
Wavelength Range (µm): 0.45 - 0.65	**Wavelength Range (nm):** 450 - 650
Damage Threshold, Reference: 0.2 J/cm^2 @ 532nm, 10ns	

Regulatory Compliance

RoHS 2015: Compliant	**Certificate of Conformance:** View
Reach 247: Compliant	

PRODUCT DETAILS

- Fused Silica and ZERODUR® Substrates
- λ/10 and λ/20 Surface Flatness
- Variety of Coating Options Offered

TECHSPEC® Precision Optical Flat Mirrors are ideal for various applications, including interferometry, imaging systems, laser applications, optical path folding, and autocollimation. These mirrors are available in multiple coating and substrate options and surface flatness options of λ/10 and λ/20. The first substrate option ZERODUR®, a yellow-tinted glass ceramic, features an extremely low coefficient of thermal expansion. TECHSPEC® Precision Optical Flat Mirrors are ideal for applications where temperature fluctuation is a concern using the ZERODUR® substrate. The second option, Fused Silica, is optically clear and features excellent resistance to abrasion and high durability, making it the best choice for applications in harsh environments. Please note, calibration certificates are not supplied with these parts.

TECHSPEC® λ/10 and λ/20 Precision Optical Flats are available for testing and measurement applications.

Note: Surface flatness specifications are measured before coating.

COATING CURVES

CUSTOM

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.**

COMPATIBLE MOUNTS