

TECHSPEC<sup>®</sup> 50 x 50mm, 750 - 1100nm Broadband  $\lambda/10$  Mirror



Stock **#29-933** 20+ In Stock

-

1

+

₹16,738

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | ₹16,738 each                  |
| Qty 6-25       | ₹13,390 each                  |
| Qty 26-49      | ₹12,573 each                  |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

SPECIFICATIONS

General

Flat Mirror

Type:

| Physical & Mechanical Properties                                                            |                                |
|---------------------------------------------------------------------------------------------|--------------------------------|
| Commercial Polish                                                                           | Back Surface:                  |
| 50.00 x 50.00 +0.00/-0.20                                                                   | Dimensions (mm):               |
| 90                                                                                          | Clear Aperture (%):            |
| Ground, 0.5mm max bevel                                                                     | Edges:                         |
| <0.5                                                                                        | Parallelism (arcmin):          |
| 30                                                                                          | Parallelism (arcsec):          |
| 5.00 ±0.20                                                                                  | Thickness (mm):                |
| Optical Properties                                                                          |                                |
| Dielectric Mirror (750-1100nm)                                                              | Coating:                       |
| R <sub>avg</sub> >98% @ 750 - 1100nm (0 - 45°)<br>R <sub>avg</sub> >99% @ 750 - 1100nm (0°) | Coating Specification:         |
| 750 - 1100                                                                                  | Wavelength Range (nm):         |
| λ/10                                                                                        | Surface Flatness (P-V):        |
| Fused Silica (Corning 7980)                                                                 | Substrate: □                   |
| 20-10                                                                                       | Surface Quality:               |
| Dielectric                                                                                  | Coating Type:                  |
| 0-45                                                                                        | Angle of Incidence (°):        |
| 1 J/cm² @ 1064nm, 20ns, 20Hz                                                                | Damage Threshold, Reference: □ |
| Regulatory Compliance                                                                       |                                |
| View                                                                                        | Certificate of Conformance:    |

## PRODUCT DETAILS

- Enhanced Reflectivity and LIDT over Metallic Coatings
- Average Reflectivity >99% Over Broad UV, Visible, and NIR Wavelengths
- Designed for all Polarization States from 0 – 45° AOI

TECHSPEC® Broadband Dielectric λ/10 Mirrors are ideal for beam steering or reflection applications utilizing multiple laser sources. These mirrors feature greater than 99% reflection, significantly better than metal-coated mirrors, and increase system performance by minimizing energy loss. The highly durable fused silica substrate offers a low thermal expansion coefficient and a high abrasion resistance. TECHSPEC® Broadband Dielectric λ/10 Mirrors are designed for applications from the UV to the near-infrared spectra.

## TECHNICAL INFORMATION

## UV



## VIS



## NIR



## 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](#).