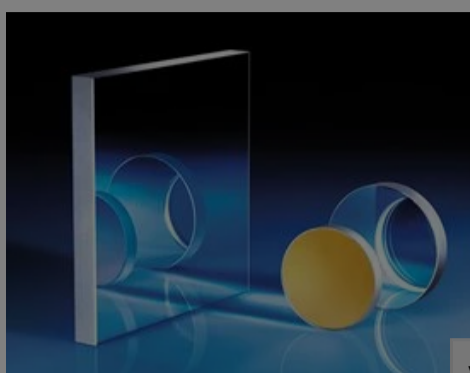


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TECHSPEC® 50mm



1

€55^{,50}

Submit

ADD TO CART

Volume Pricing	
Qty 1-5	€55,50 each
Qty 6-25	€41,00 each
Qty 26-99	€38,00 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes



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):	50.00 ±0.25	Thickness (mm):	3.00 nominal
Clear Aperture CA (mm):	47.50	Dimensional Tolerance (mm):	±0.25
Edges:	Ground, 0.5mm Maximum Edge Chip		

Optical Properties

Coating Type:	Metal	Coating:	Protected Silver (450-10000nm)
Surface Flatness (P-V):	4 - 6λ	Wavelength Range (nm):	450 - 10000
Substrate:	Float Glass	Coating Specification:	R _{avg} >98% @ 450 - 2000nm R _{avg} >98% @ 2000 - 10,000nm
Surface Quality:	60-40	Damage Threshold, Reference:	0.5 J/cm ² @ 532nm & 1064nm, 10ns

Regulatory Compliance

RoHS 2015: **Compliant**

Certificate of Conformance: [View](#)

Product Details

- Wide Variety of Shapes and Sizes Available
- Enhanced Aluminum, Protected Gold, and Protected Silver
- [Contact Us](#) for Custom Sizes

TECHSPEC® First Surface Mirrors feature a high reflectivity coating deposited on the front surface of the glass substrate. The mirrors are available in enhanced aluminum, protected gold, and protected silver coatings for high reflectivity from 450-10000nm. The coated surface should be oriented to reflect incident light. TECHSPEC First Surface Mirrors are offered in circular, square, and rectangular dimensions. First surface mirrors are ideal for applications requiring the mirror to be mounted at 45° in order to produce a 90° bend in the light path. These first surface mirrors easily mount into a [range of optical mounts](#) to facilitate application integration.

Note: A range of mounts specifically compatible with individual TECHSPEC® First Surface Mirrors can be found on product web pages.

TECHSPEC® First Surface Mirrors feature a high-reflectivity coating deposited on the front surface of a float-glass substrate to minimize ghosting and enable accurate beam redirection.

They are available with enhanced aluminum, protected silver, and protected gold coatings for applications requiring high reflectivity from 450 – 10000nm.

These mirrors are ideal for optical path folding, beam steering, and imaging systems where the mirror is mounted at 45° to produce a 90° bend in the light path.

Offered in circular, square, and rectangular formats, they are well-suited for OEM integration, prototype builds, and general laboratory alignment setups. With typical surface flatness of 4 – 6λ (waves) and 60-40 surface quality, they provide a cost-effective solution for applications that require reliable reflected beam performance without the added expense of precision polished substrates.

First-surface mirrors are commonly used in life sciences, metrology, semiconductor, and general photonics systems where the quality of reflected light is important.

For proper use, the coated surface should be oriented toward the incident light to avoid transmission through the substrate and preserve optical performance.

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Technical Information

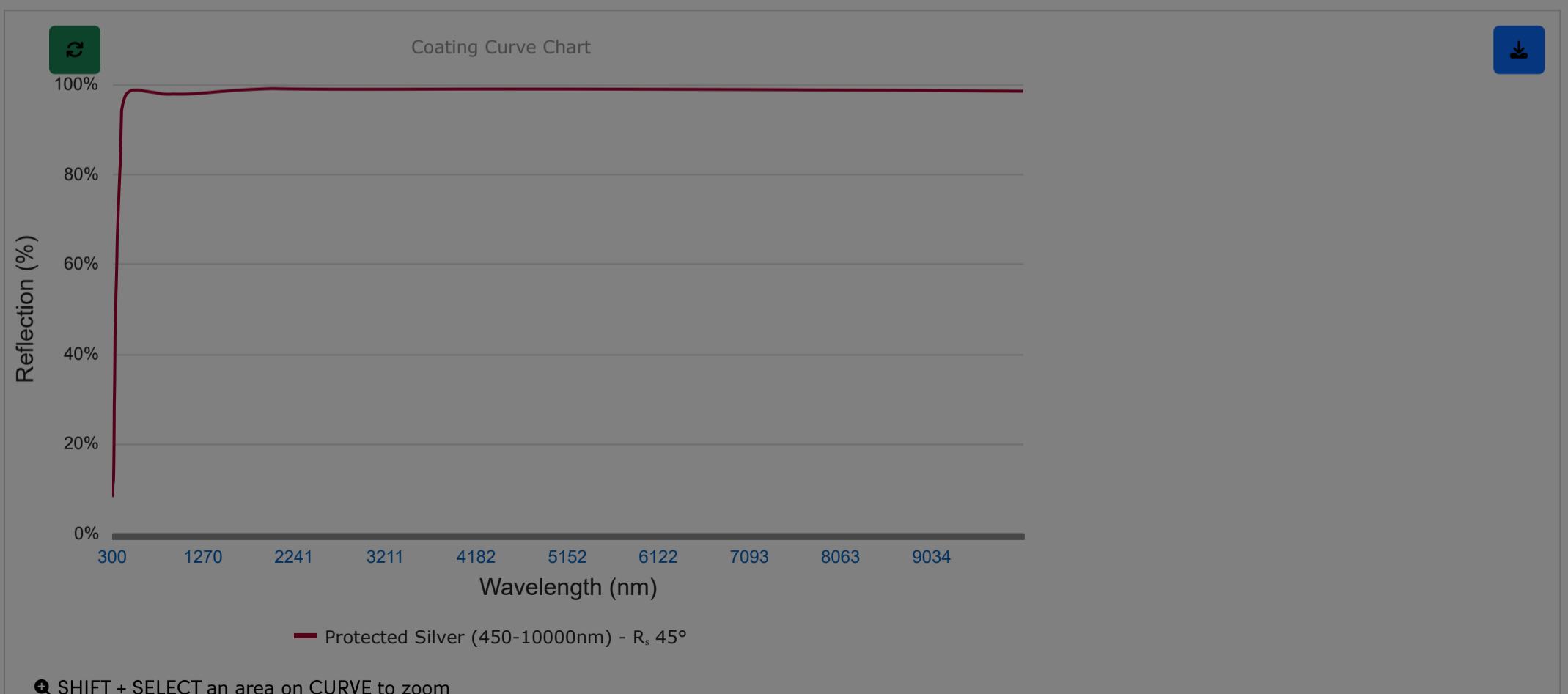
Coating Curves

Protected Silver (450-10000nm) -
R_s 45°

Protected Silver (450-10000nm) -
R_p 45°

Protected Silver (450-10000nm) -
R(avg) 45°

Protected Silver (450-10000nm) -
R @ 0°



Please note that coating performance outside each product's specified design range is theoretical and may vary.

Related Products



PUROSOL™ Optical Cleaner

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$\lambda/4$ First Surface Mirrors



4-6 λ First Surface Mirrors



Optical Mirror Mounts

Frequently Purchased Together



#32-477 - 25.0mm Dia. x 50.0mm FL Uncoated, Plano-Convex Lens
€32,75

Qty



#32-481 - 25.0mm Dia. x 100.0mm FL Uncoated, Plano-Convex Lens
€32,75

Qty



#33-358 - 25.0mm Dia. x 200.0mm FL, Uncoated, Plano-Convex Lens
€32,75

Qty





























#32-973 - 50.0mm Dia. x 100.0mm FL, MgF₂ Coated, Plano-Convex Lens
€61,50

Qty

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
	50.0mm Optic Dia., Optic Mount	Fixed		#64-567	€49,25 Request Quote	2 In Stock <input type="text" value="1"/>
	50.0mm Optic Dia., Optic Mount	Fixed		#64-568	€49,25 Request Quote	7 In Stock <input type="text" value="1"/>
	9.5 - 73.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#36-605	€83,00 Request Quote	20+ In Stock <input type="text" value="1"/>
	50.0/50.8mm Optic Dia., E-Series Kinematic Mount	Adjustable - Tip-Tilt		#15-867	€96,00 Request Quote	CONTACT US <input type="text" value="1"/>
	10.0 - 60.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-530	€108,00 Request Quote	CONTACT US <input type="text" value="1"/>
	19.5 - 108.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#03-670	€114,00 Request Quote	20+ In Stock <input type="text" value="1"/>
	7.0 - 67.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-669	€116,00 Request Quote	20+ In Stock <input type="text" value="1"/>

	Title	Type	Compare	Stock Number	Price	Buy
MORE+	 50.0/50.8mm Optic Dia., Optical Assembly			#36-465	€119,95	2 In Stock <input type="text" value="1"/> 
MORE+	 8.0 - 118.0 C Height, English Type Optic H					20+ In Stock <input type="text" value="1"/> 
MORE+	 50.0/50.8mm Optic Dia., Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#58-852	€135,00 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+	 50.0/50.8mm Optic Dia., Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#58-855	€157,00 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+	 50.0/50.8mm Optic Dia., Stainless Steel Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#26-816	€246,00 Request Quote	12 In Stock <input type="text" value="1"/> 
MORE+	 50.0/50.8mm Optic Dia., Stainless Steel Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#26-819	€268,00 Request Quote	CONTACT US <input type="text" value="1"/> 
MORE+	 50.0/50.8mm Optic Dia., X-Y Translating Optic Mount	Adjustable - Linear (XY)		#62-957	€308,00 Request Quote	1 In Stock <input type="text" value="1"/> 
MORE+	 50.0/50.8mm Optic Dia., Kinematic Mirror Mount	Adjustable - Tip-Tilt		#55-005	€361,00 Request Quote	6 In Stock <input type="text" value="1"/> 
MORE+	 50.0/50.8mm Optic Dia., Kinematic Mirror Mount with Micrometer	Adjustable - Tip-Tilt		#56-326	€387,00 Request Quote	CONTACT US <input type="text" value="1"/> 
MORE+	 5.0 - 100.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-078	€410,00 Request Quote	CONTACT US <input type="text" value="1"/> 
MORE+	 50.0/50.8mm Optic Dia., Precision Gimbal Mount	Adjustable - Gimbal		#55-000	€510,00 Request Quote	7 In Stock <input type="text" value="1"/> 
MORE+	 50.0/50.8mm Optic Dia., X-Y-Z Translating Optic Mount	Adjustable - Linear (XYZ)		#62-960	€605,00 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+	 50.0/50.8mm Optic Dia., 5 Axes Optical Mount	Adjustable - Linear (XYZ) & Tip-Tilt		#13-778	€840,00 Request Quote	10 In Stock <input type="text" value="1"/> 

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

Resources

Media Type

- Application Note
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? FAQ

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