

0.5° Diffusing Angle 50mm Dia., Fused Silica Holographic Diffuser



UV Fused Silica Holographic Diffusers

Stock **#48-513** 1 In Stock

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1

+

€820⁰⁰

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General

Type:

Holographic Diffuser

Physical & Mechanical Properties

Clear Aperture CA (mm):

45.7 ±0.1

Diameter (mm):

50.00 ±0.1

Construction:

Mounted	
Optical Properties	
±0.5	Angle Tolerance (°):
0.5 (FWHM)	Diffusing Angle (°):
Fused Silica (Corning 7980)	Substrate: ☐
Typical: 90	Transmission (%):
400 - 700	Wavelength Range (nm):
Threading & Mounting	
5.00 +0.00/-0.35	Mount Thickness (mm):
Environmental & Durability Factors	
-40 to +170	Operating Temperature (°C):
Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:

Product Details

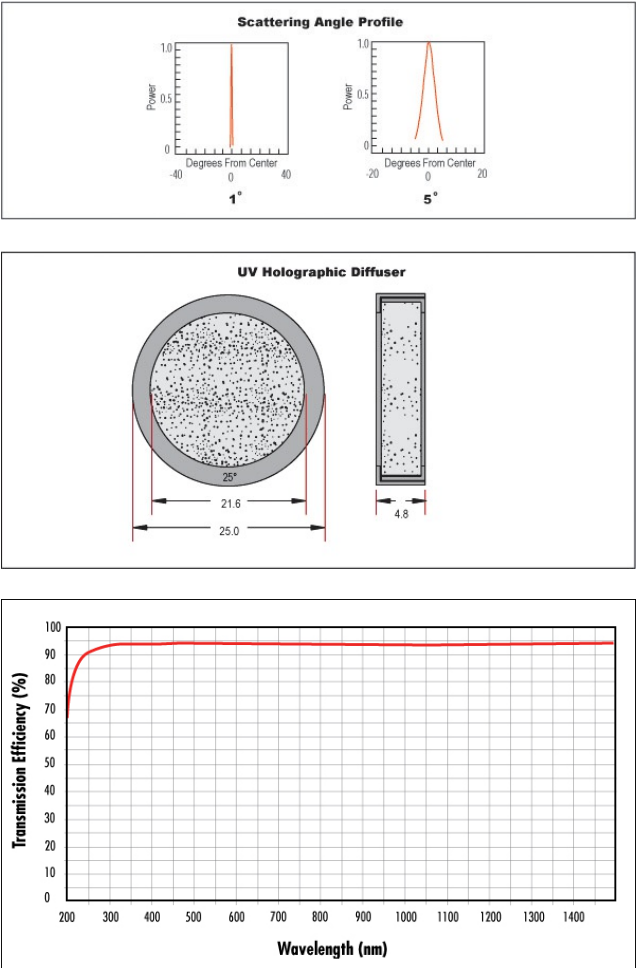
- Diffusing Angles Ranging from 0.5 - 50°
- Fused Silica Substrate Ideal for High Temperatures
- Homogenous Light Distribution
- [Standard Holographic Diffusers](#) Also Available

UV Fused Silica Holographic Diffusers are used to control the diffuse area of illumination and increase transmission efficiency to greater than 90% from filament lamps, LEDs, arc lamps, and other sources. These UV Fused Silica Holographic Diffusers use a fused silica substrate enabling their use at higher operating temperature than [polycarbonate holographic diffusers](#) and offer controlled, homogenous light distribution. It is important to note that diffusing angles are given for a collimated input beam and angular divergence will vary for different incidence angles.

Unlike many holographic elements, these specific fused silica components transmit light in the UV, visible, and near-infrared. Zero order, or a specular component, of transmitted light is less than 1% for visible wavelengths. Diffusers with wider diffusing angles (10 degree FWHM or wider) can also be used in an extended range of 200-1500nm, but those with lower diffusing angles are only recommended for use between 400-700nm.

Note: Matte surface should face the light source. To clean holographic diffusers, dampen a lint free cloth wipe with methanol and gently wipe the entire diffuser surface in a gentle, circular pattern. Immediately and carefully blow off the clean diffuser area with dry compressed air. Caution: cleaning may cause a change in the optical performance of the diffuser.

Technical Information



Compatible Mounts

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