See all 20 Products in Family

50° Diffusing Angle 25mm Dia., Fused Silica Holographic Diffuser

UV Fused Silica Holographic Diffusers

Stock **#48-512** **4 In Stock**

- 1 + **S$698**.60

ADD TO CART

Volume Pricing	
Qty 1+	**S$698.60** each
Need More?	Request Quote

Product Downloads

General

Type:

Holographic Diffuser

Physical & Mechanical Properties

Clear Aperture CA (mm):

21.6 ±0.1

Diameter (mm):

25.00 ±0.1

Construction:

Mounted

Optical Properties

Angle Tolerance (°):
±5

Diffusing Angle (°):
50 (FWHM)

Substrate:
Fused Silica (Corning 7980)

Transmission (%):
Typical: 90

Wavelength Range (nm):
400 - 700

Threading & Mounting

Mount Thickness (mm):
5.00 +0.00/-0.35

Environmental & Durability Factors

Operating Temperature (°C):
-40 to +170

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 247:
Compliant

Product Details

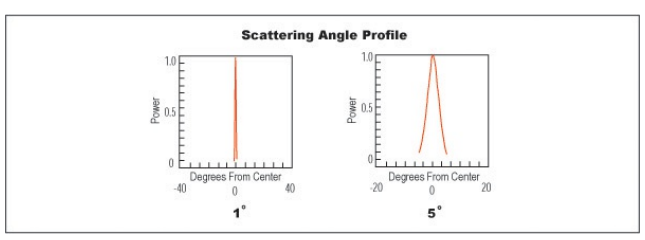
- Diffusing Angles Ranging from 0.5 - 50°
- Fused Silica Substrate Ideal for High Temperatures
- Homogenous Light Distribution
- Standard Holographic Diffusers Also Available

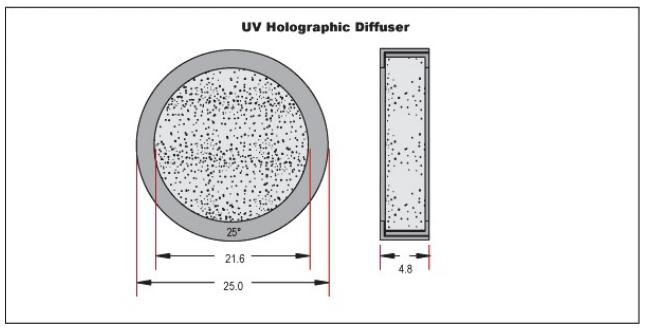
UV Fused Silica Holographic Diffusers are used to control the diffuse area of illumination and increase transmission efficiency to greater than 90% from filament lamps, LEDs, arc lamps, and other sources. These UV Fused Silica Holographic Diffusers use a fused silica substrate enabling their use at higher 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.

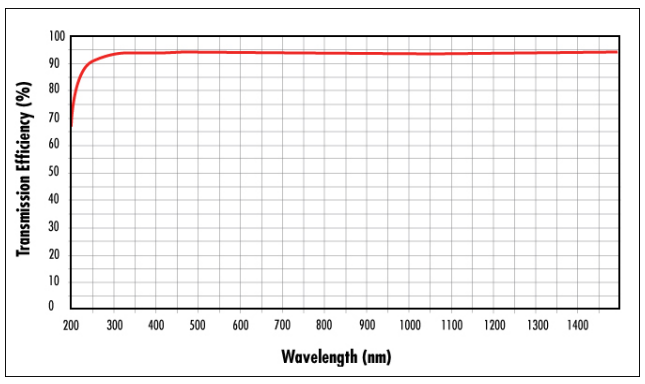
Unlike many holographic elements, these specific fused silica components transmit light in the UV, visible, and near-infrared. Zero order, or a specular component, of transmitted light is less than 1% for visible wavelengths. Diffusers with wider diffusing angles (10 degree FWHM or wider) can also be 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

;