

## 50mm Square, 45° AOI, Hot Mirror



Hot Mirrors

Stock #43-957 **20+ In Stock**

⊖ 1 ⊕ ₹4,437

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### General

Dichroic Filter **Type:**

### Physical & Mechanical Properties

50.0 x 50.0 **Dimensions (mm):**

3.30 **Thickness (mm):**

Dimensional Tolerance (mm):

±0.5

## Optical Properties

45.00 **Angle of Incidence (°):**

Hot Mirror, 45° **Coating:**

[BOROFLOAT®](#) **Substrate:**

>90, 750 - 1125nm **Reflection (%):**

80-50 **Surface Quality:**

>85, 425 - 675nm **Transmission (%):**

Surface 1: 45° Hot Mirror  
Surface 2: None **Coating Specification:**

425 - 1125 **Wavelength Range (nm):**

4 - 6λ **Surface Flatness (P-V):**

Dielectric **Coating Type:**

## Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[View](#) **Certificate of Conformance:**

[Compliant](#) **Reach 247:**

United States **Country of Origin:**

Edmund Optics India Private Limited **Imported By:**

## Product Details

- Ideal for Reducing Heat
- Reflects >90% of the NIR and IR
- Transmits >85% of Visible Light

Hot Mirrors are available in 0° or 45° angle of incidence options and are ideal for decreasing the undesirable heat caused by infrared radiation. A multi-layer dielectric coating transmits 85% of visible light while reflecting over 90% of the NIR and IR, making them suited for projection systems where heat build-up can lead to system damage.

**Note:** When using high power illumination, forced air cooling is recommended.

Hot mirrors are crucial in many projection and illumination systems where high levels of heat can quickly damage sensitive components. Hot mirrors are specially coated to transmit visible light while reflecting the NIR, a major contributor to heat generation. By using a hot mirror, heat levels are limited with minimum impact on the overall system performance.

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[Compatible Mounts](#)