

50mm Diameter, 45° AOI, Hot Mirror



Hot Mirrors

Stock #55-233 **10 In Stock**

1 C\$98⁰⁰

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Qty 1-9	C\$98.00 each
Qty 10-25	C\$88.20 each
Qty 26-49	C\$83.30 each
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General

Dichroic Filter **Type:**

Physical & Mechanical Properties

50.00 ±0.25 **Diameter (mm):**

3.30 **Thickness (mm):**

Optical Properties

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

Dielectric **Coating Type:**

Hot Mirror, 45° **Coating:**

4 - 6λ **Surface Flatness (P-V):**

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

[BOROFLOAT®](#) **Substrate:**

45.00 **Angle of Incidence (°):**

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

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

80-50 **Surface Quality:**

Regulatory Compliance

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

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

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

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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