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50mm Sq., Extended Hot Mirror

Extended Hot Mirrors

Stock **#46-388** **20+ In Stock**

- 1 + **₹7,863**

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Volume Pricing	
Qty 1-9	**₹7,863** each
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Qty 26-49	**₹6,734** each
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General

Type:

Shortpass Filter

Physical & Mechanical Properties

Dimensions (mm):

50.0 x 50.0

Thickness (mm):

3.30 ±0.2

Dimensional Tolerance (mm):
±0.5

Clear Aperture (%):
≥85

Edges:
Seamed

Optical Properties

Angle of Incidence (°):
0.00

Coating:
Hot Mirror, 0°

Substrate:
BOROFLOAT®

Surface Quality:
80-50

Coating Specification:
R_{avg} ≥90% @ 750 - 1150nm
R_{avg} ≥80% @ 1200 - 1600nm
T_{avg} ≥85% @ 425 - 675nm

Wavelength Range (nm):
425 - 1600

Surface Flatness (P-V):
4 - 6λ

Coating Type:
Dielectric

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 247:
Compliant

Country of Origin:
United States

Imported By:
Edmund Optics India Private Limited

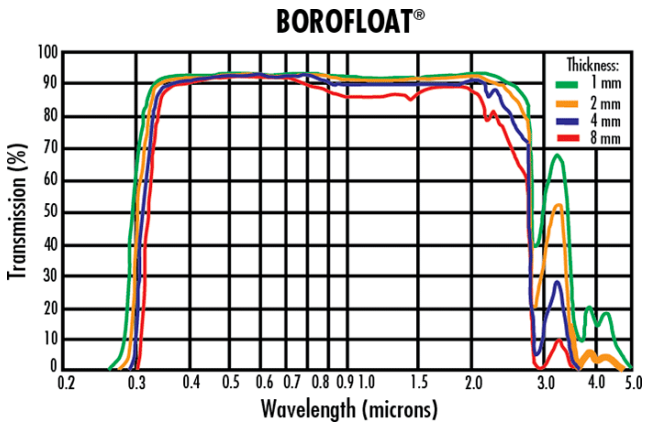
Product Details

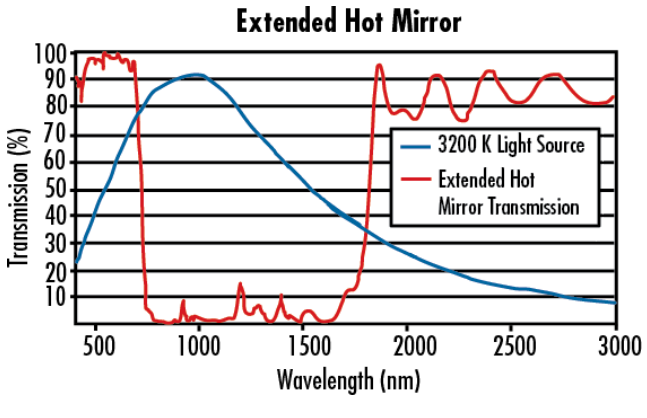
- Improved NIR Reflectance Over Standard Hot Mirrors
- Operating Temperatures up to 230°C
- Neutral Color for 5500K or 3200K Sources to ±250K

Extended Hot Mirrors are designed to reduce the heat in an optical system without sacrificing the system's visible output. While typical hot mirrors reflect from 750nm to approximately 1250nm, Extended Hot Mirrors further reduce heat by extending the reflection range to approximately 1750nm.

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 attributor to heat generation. By using a hot mirror, heat levels are limited with minimum impact on the overall system performance.

Technical Information





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Compatible Mounts