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25.4mm Dia., 1000 - 1100nm, High-Power Low-Loss Laser Mirror

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UltraFast Innovations (UFI) High-Power Low-Loss Laser Mirrors

Stock **#15-961** **8 In Stock**

- 1 +

C$1,162.00

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Volume Pricing	
Qty 1-5	**C$1,162.00** each
Qty 6+	**C$1,022.00** each
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General

Model Number:

HR2007

Physical & Mechanical Properties

Wedge Angle (arcmin):

10±5

Clear Aperture (%):

80

Back Surface:
Commercial Polish

Diameter (mm):
25.40 +0.00/-0.05

Thickness (mm):
12.70 ±0.05

Bevel:
0.75

Optical Properties

Reflectivity (Rs%):
>99.99% @ 1030 & 1064nm

Reflectivity (Rp%):
>99.98% @ 1030 & 1064nm

GDD Specification:
0fs^2 @ 1030nm & 1064nm, 45°, s- and p-pol

Wavelength Range (nm):
1000 - 1100

Irregularity (P-V) @ 632.8nm:
λ/10

Coating Type:
Dielectric

Design Wavelength DWL (nm):
1030, 1064

Angle of Incidence (°):
45

Substrate:
Fused Silica (Corning 7980)

Damage Threshold, By Design:
50 J/cm^2 @ 1064nm, 100Hz, 8ns pulses

Average GDD (fs^2):
0 fs^2 @ 45° AOI, 1030 and 1064nm, s- and p- pol

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 235:
Compliant

Need different specs or modifications?

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

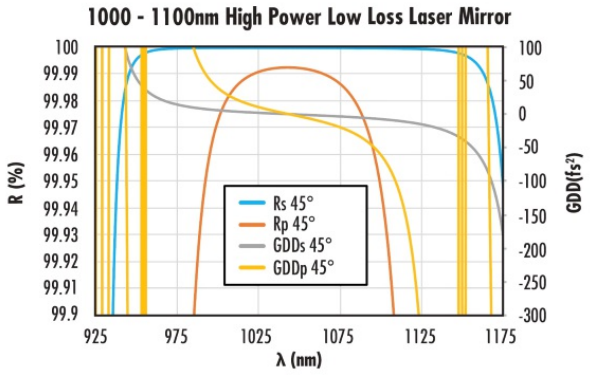
Learn more about our custom manufacturing capabilities or submit an inquiry here.

Product Details

- >99.99% Reflectivity at 1030nm and 1064nm
- Laser Damage Threshold of 50 J/cm^2 at 1064nm, 100Hz, 8ns
- Universal Designs for Nanosecond, Picosecond, and Femtosecond Laser Pulses
- Custom Options are Available up to 200mm Diameter

UltraFast Innovations (UFI) High-Power Low-Loss Laser Mirrors provide >99.99% reflectivity with industry leading damage thresholds. Laser grade surface quality and surface flatness with 0fs^2 group delay dispersion (GDD) at 1030nm and 1064nm make these mirrors ideal for the requirements of demanding laser applications. With >99.99% reflectivity of s-polarized light and >99.98% reflectivity of p-polarized light, these mirrors can be used with nanosecond, picosecond, and femtosecond lasers. Durable dielectric coatings are tested to ensure a high laser damage threshold of >50 J/cm^2 at 1064nm, 100Hz, 8ns. UFI High-Power Low-Loss Laser Mirrors feature fused silica substrates with excellent thermal stability and a 25.4mm diameter to facilitate integration into 1030nm or 1064nm laser systems. Please contact us if your application requires a High Power Low Loss Laser Mirror with a custom size or coating.

Technical Information


1000 - 1100nm High Power Low Loss Laser Mirror
R (%)
GDD(fs²)
λ (nm)
Rs 45°
Rp 45°
GDDs 45°
GDDp 45°
100
99.99
99.98
99.97
99.96
99.95
99.94
99.93
99.92
99.91
99.9
100
50
0
-50
-100
-150
-200
-250
-300
925
975
1025
1075
1125
1175

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