

12.7mm 5°, 1030nm Highly-Dispersive Ultrafast Mirror

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Design Wavelength DWL (nm):
1030

Wavelength Range (nm):
1000 - 1060

Diameter (mm):
12.70 +0.0/-0.1

Angle of Incidence (°): 5
Reflection at DWL (%): 99.9 (typical, p-polarization)
Thickness (mm): 6.35 ±0.2
Substrate: ☐ Fused Silica (Corning 7980)
Type: Laser Mirror
Coating Type: Dielectric
Coating Specification: R _{avg} >99.8%, GDD = -500fs ² @ 1000 - 1060nm (p-polarization) R _{abs} >99.9% @ 1030nm (typical, p-polarization)
GDD Specification: -500fs ² @ 1000 - 1060nm
Back Surface: Commercial Polish
Clear Aperture (%): 80
Coating: Ultrafast (1000-1060nm)
Typical Applications: Yb:doped 1st Harmonic
Irregularity (P-V) @ 632.8nm: λ/10
Wedge (arcmin): 10 ±5
Minimum Reflectivity : >99.8% @ 1000 - 1060nm (p-polarization)
Damage Threshold, By Design: ☐ 0.3 J/cm ² @ 1030nm, 50fs, 1kHz, 100μm Beam Diameter

Regulatory Compliance

RoHS 2015: Compliant
Certificate of Conformance: View
Reach 235: Compliant