TECHSPEC 532nm, 45° 25.4mm Dia. Nd:YAG IBS Low Loss Laser Line Mirror

Stock **#89-451** **1 In Stock**

- 1 + **£181**.23

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Volume Pricing	
Qty 1-5	**£181.23** each
Qty 6+	**£158.47** each
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Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Type:	Laser Mirror

Physical & Mechanical Properties

Parallelism (arcmin): <1	**Clear Aperture (%):** >90
Back Surface: Commercial Polish	**Diameter (mm):** 25.40 +0.0/-0.1
Thickness (mm): 5.00 ±0.1	

Optical Properties

Surface Quality: 20-10	**Reflection at DWL (%):** 99.97
Reflectivity (Rs%): 99.97	**Reflectivity (Rp%):** 99.93
Reflectivity (Rs%, Rp%): >99.9	**Coating Specification:** R_s >99.97% @ 532nm R_p >99.93% @ 532nm
Wavelength Range (nm): 515 - 532	**Surface Flatness (P-V):** λ/8
Coating Type: Dielectric	**Coating:** Laser Mirror (515-532nm)
Design Wavelength DWL (nm): 532	**Angle of Incidence (°):** 45
Substrate: Fused Silica (Corning 7980)	**Damage Threshold, By Design:** >12 J/cm^2 @ 1064nm, 10ns

Environmental & Durability Factors

Durability: MIL-C-675A	

Regulatory Compliance

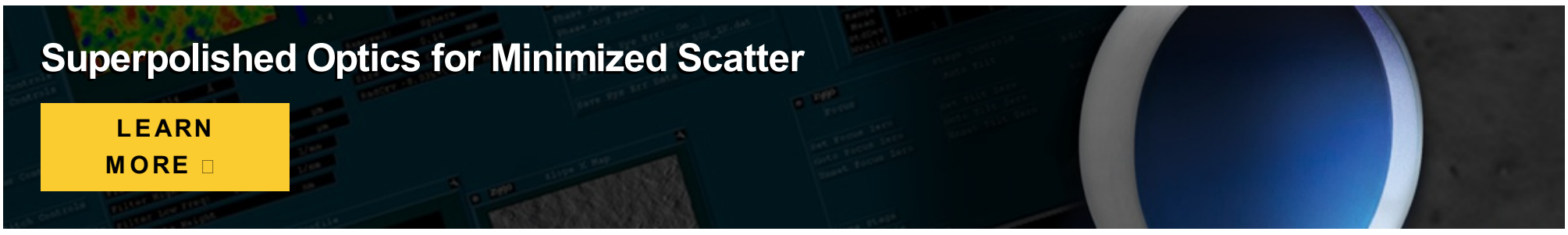
RoHS 2015: Compliant	**Certificate of Conformance:** View
Reach 247: Compliant	

PRODUCT DETAILS

- Up to 99.98% Reflectivity
- Certified High Laser Damage Threshold at DWL up to 15 J/cm^2 @ 1064nm
- Superpolished Substrates Available with Parts per Million Level Scattering Performance
- Additional Sizes Coming Soon

TECHSPEC® High Performance Nd:YAG Laser Line Mirrors are coated using ion beam sputtering (IBS) technology. These laser mirrors are designed for extremely demanding laser applications that require the highest reflection at their design wavelength. The Ion Beam Sputtered coating causes these mirrors to have lower surface roughness than competing coating technologies, resulting in less scatter. TECHSPEC® High Performance Nd:YAG Laser Line Mirrors feature high environmental stability due to dense coating films. Environmental factors such as temperature and humididty cause negligible performance degradation.

Please contact us if your application requires an IBS Laser Line Mirror with custom dimensions or a custom IBS mirror coating.



CUSTOM

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.**

COMPATIBLE MOUNTS