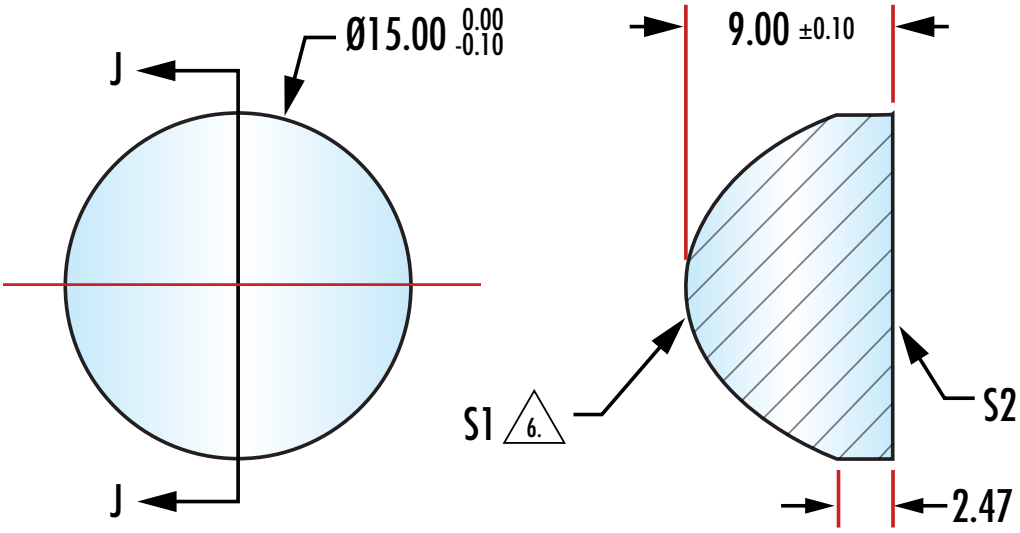
LASER LINE COATED PRECISION ASPHERIC LENSES

TECHSPEC® PRECISION ASPHERIC LENSES DESIGNED FOR ND:YAG LASER WAVELENGTHS

TECHSPEC® Laser Line Coated Precision Aspheric Lenses are designed to maximize performance in high power Nd:YAG laser applications. The high precision aspheric designs minimize spherical aberration to decrease laser spot size and maintain high power per area. Additionally, TECHSPEC® Laser Line Coated Precision Aspheric Lenses feature high performance coatings that have been optimized for the most popular Nd:YAG laser wavelengths and a high damage threshold, UV fused silica substrate that is highly resistant to thermal expansion.



Section J-J

FEATURES
CNC Polished
Eliminate Spherical Aberrations
0.75µm RMS Aspheric Figure Error
60-40 Surface Quality
15mm – 25mm Diameter Options
Coated at Common Laser Wavelengths
Designed, Specified, and/or Manufactured by Edmund Optics®

APPLICATIONS
Laser Equipment
Detectors
Cytometers/Cell Counters
Spectrometry
Surgical Systems
Test Equipment
Imaging (Inspection, Cameras, OCT, Fluorescence)

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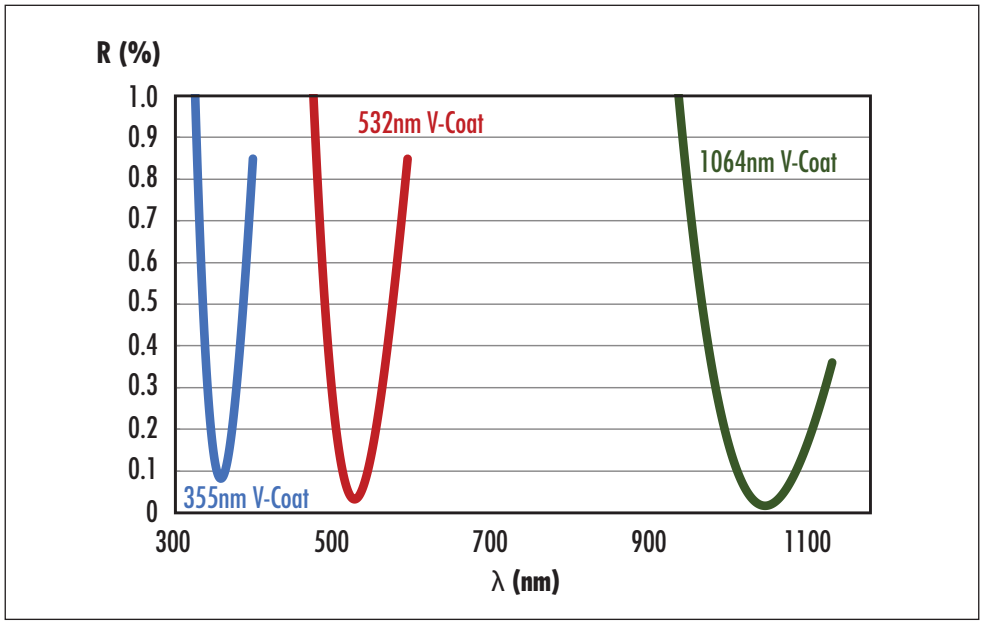
COMMON CHARACTERISTICS	
Design Wavelength	355nm, 532nm, or 1064nm
Clear Aperture	90%
Conjugate Distance	Infinite
RoHS	Compliant

UNIQUE SPECIFICATIONS

Parameter	Lower Cost	This Family	Higher Precision
	High Precision	Laser Line Coated Precision	λ/40 Laser Grade
Asphere Figure Error @ 632.8nm (μm RMS)	0.25	0.75	0.016
Surface Quality	40-20	60-40	10-5
Diameter Tolerance	+0.0/-0.025	+0.0/-0.1	+0.00/-0.05
Material	L-BAL35, N-SF6, N-BK7	Fused Silica	Fused Silica

COMMONLY SELECTED COATINGS

Coating Name	Spectral Range (nm)	Reflection	Environmental Conditions
355nm Laser V-Coat	355	$R_{abs} < 0.25\%$	MIL-PRF-13830B: Pass per C.3.8.4
532nm Laser V-Coat	532	$R_{abs} < 0.25\%$	MIL-PRF-13830B: Pass per C.3.8.4
1064nm Laser V-Coat	1064	$R_{abs} < 0.25\%$	MIL-PRF-13830B: Pass per C.3.8.4



Custom coating options for all products are available upon request.