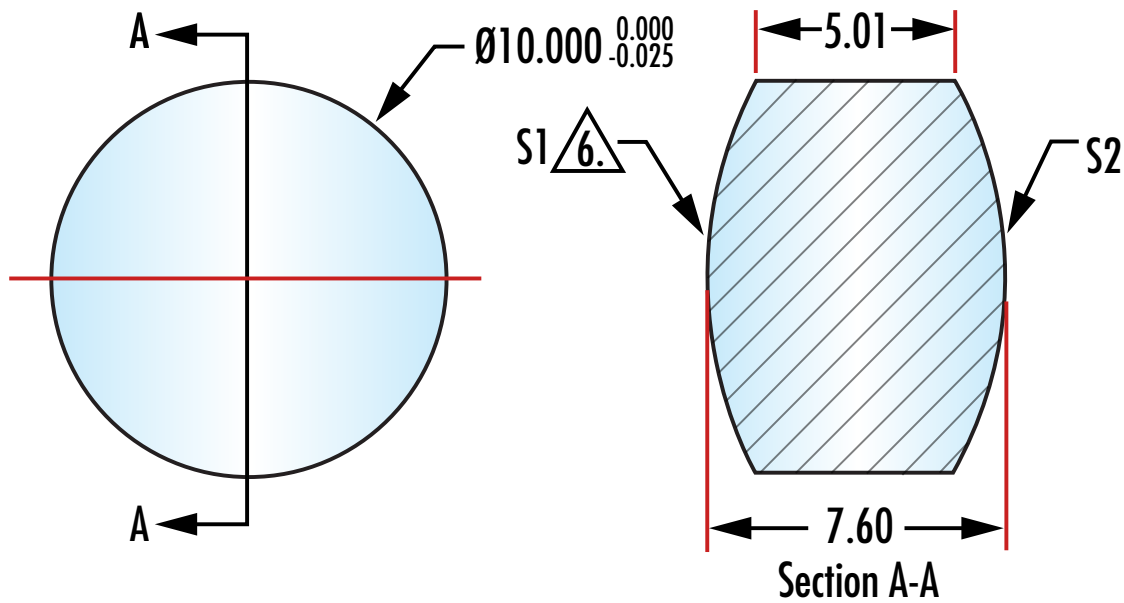


DOUBLE-SIDED ASPHERIC LENSES

TECHSPEC® ASPHERIC LENSES

DESIGNED FOR 1X MAGNIFICATION

TECHSPEC® Double-Sided Aspheric Lenses are ideal for 1:1 imaging applications. Featuring high numerical apertures with an $f/\#$ of 1.0, these lenses are excellent for light collection and are available in 10 to 50mm diameters. These double-convex lenses, also known as bi-convex lenses, can be used to reduce the number of optical elements in a system while providing superior performance. TECHSPEC® Double-Sided Aspheric Lenses are optimized for 1X magnification, however the aspheric design accommodates up to 4X magnification with excellent performance.



FEATURES
CNC Polished
Eliminate Spherical Aberrations
0.25 μ m RMS Aspheric Figure Error
40-20 Surface Quality
10mm – 50mm Diameter Options
High Numerical Apertures
Designed, Specified, and/or Manufactured by Edmund Optics®

APPLICATIONS
Laser Equipment
Detectors
Cytometers/Cell Counters
Spectrometry
Finite Conjugate Applications
Test Equipment
Imaging (Inspection, Cameras, OCT, Fluorescence)

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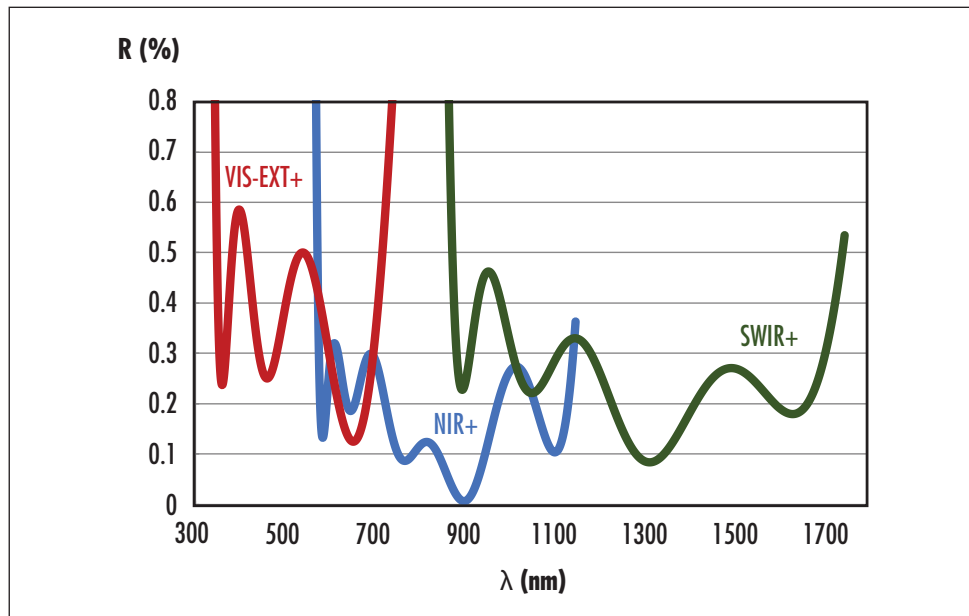
COMMON CHARACTERISTICS	
Design Wavelength	587.6nm
Surface Type	Aspheric
Clear Aperture	90%
Conjugate Distance	Infinite
RoHS	Compliant

UNIQUE SPECIFICATIONS

Parameter	Lower Cost	This Family	Higher Precision
	High-Precision	Double-Sided Asphere	Custom Options Available
Asphere Figure Error @ 632.8nm ($\mu\text{m RMS}$)	0.25	0.25	0.016
Surface Quality	40-20	40-20	20-10
Diameter Tolerance	+0.00/-0.025	+0.00/-0.025	+0.00/-0.025
Material	N-SF5, N-SF6, N-BK7	N-SF5, N-SF6, N-BK7	N-SF5, N-SF6, N-BK7
Surface Type	PCX	DCX	DCX

COMMON COATING OPTIONS

Coating Name	Spectral Range (nm)	Reflection	Environmental Conditions
VIS-EXT+	350 - 700	$R_{\text{avg}} < 0.5\%$; $R_{\text{obs}} < 1.5\%$	MIL-PRF-13830B: Pass per C.3.8.4
NIR+	600 - 1050	$R_{\text{avg}} < 0.5\%$; $R_{\text{obs}} < 1.5\%$	MIL-PRF-13830B: Pass per C.3.8.4
SWIR+	900 - 1700	$R_{\text{avg}} < 0.5\%$; $R_{\text{obs}} < 1\%$	MIL-PRF-13830B: Pass per C.3.8.4



Custom coating options for all products are available upon request.