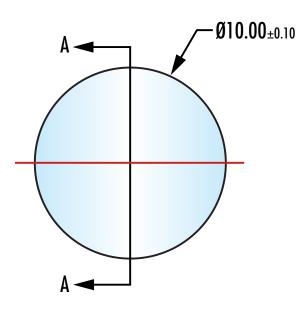
NEAR-INFRARED (NIR) ASPHERIC LENSES

TECHSPEC[®] NEAR-INFRARED (NIR) PRECISION ASPHERIC LENSES

TECHSPEC[®] Near-Infrared (NIR) Precision Aspheric Lenses are optimized to eliminate spherical aberration in the near-infrared. Manufactured from S-LAH64 or N-BK7 substrates and polished through a computer numerical controlled (CNC) process, these aspheric lenses achieve high precision performance across the NIR spectrum. These NIR aspheric lenses include uncoated substrates designed at 780nm with coating options at 350-700nm, 600-1050nm, or 900-1700nm. TECHSPEC[®] Near-Infrared (NIR) Precision Aspheric Lenses are available with low numerical aperture designs for applications that require beam shape to be maintained as well as high numerical aperture designs for light-gathering applications. For custom designed CNC polished aspheric lenses, please contact us.



~	3.70 ±0.10
	➡(1.57)
Section A-A	

FE	ATURES
	CNC Polished
	Eliminate Spherical Aberrations
	0.75µm RMS Aspheric Figure Error
	40-20 Surface Quality
	10mm — 50mm Diameter Options
	Designed at 780nm

Designed, Specified, and/or Manufactured by Edmund $\mathrm{Optics}^{\otimes}$

APPLICATIONS

Laser Equipment

Detectors

Cytometers/Cell Counters

Spectrometry

Surgical Systems

Test Equipment

Imaging (Inspection, Cameras, OCT, Fluorescence)



NEAR-INFRARED (NIR) ASPHERIC LENSES

TECHSPEC[®] NEAR-INFRARED (NIR) PRECISION ASPHERIC LENSES

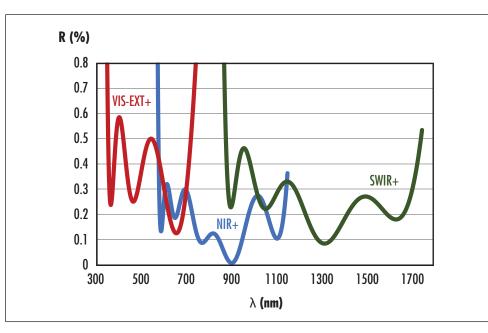
COMMON CHARACTERISTICS				
Design Wavelength	780nm			
Surface Type	Aspheric			
Clear Aperture	90%			
Conjugate Distance	Infinite			
RoHS	Compliant			

UNIQUE SPECIFICATIONS

Parameter	Lower Cost	This Family	Higher Precision
	Precision	Near-Infrared (NIR) Precision	Custom Options Available
Asphere Figure Error @ 632.8nm (µm RMS)	0.75	0.75	0.016
Surface Quality	60-40	40-20	20-10
Diameter Tolerance	+0.0/-0.1	+0.00/-0.1	+0.00/-0.025
Material	L-BAL35, N-SF6, N-BK7	S-LAH64, N-BK7	S-LAH64, N-BK7
Design Wavelength (nm)	587.6	780	780

STANDARD COATING OPTIONS

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



Custom coating options for all products are available upon request.

