

TECHSPEC® 2X, 300mm WD CompactTL™ Telecentric Lens

#33-101



300mm WD, 2X, In-Line Version (Left) and VIS Version (Right)

TECHSPEC® CompactTL™ Telecentric Lenses are designed for applications with tight space constraints due to their ultra-compact design. These lenses feature a 2/3" sensor format and a variety of different working distance and magnification options. From single unit to high volume implementation, these lenses provide a great price to performance ratio. TECHSPEC® CompactTL™ Telecentric Lenses are perfect for integration into gauging systems due to their excellent telecentricity and low distortion. The fixed iris and lockable focus make these lenses ideal for implementation into factory floors and assembly lines, as they will remain fixed over time.

Length excluding Threads (mm):	198.90
Working Distance Tolerance (mm):	±2
Manufacturer:	Edmund Optics®
Coating:	λ/4 MgF ₂
Depth of Field (mm):	±0.3mm (20% @ 20 lp/mm)

Optical

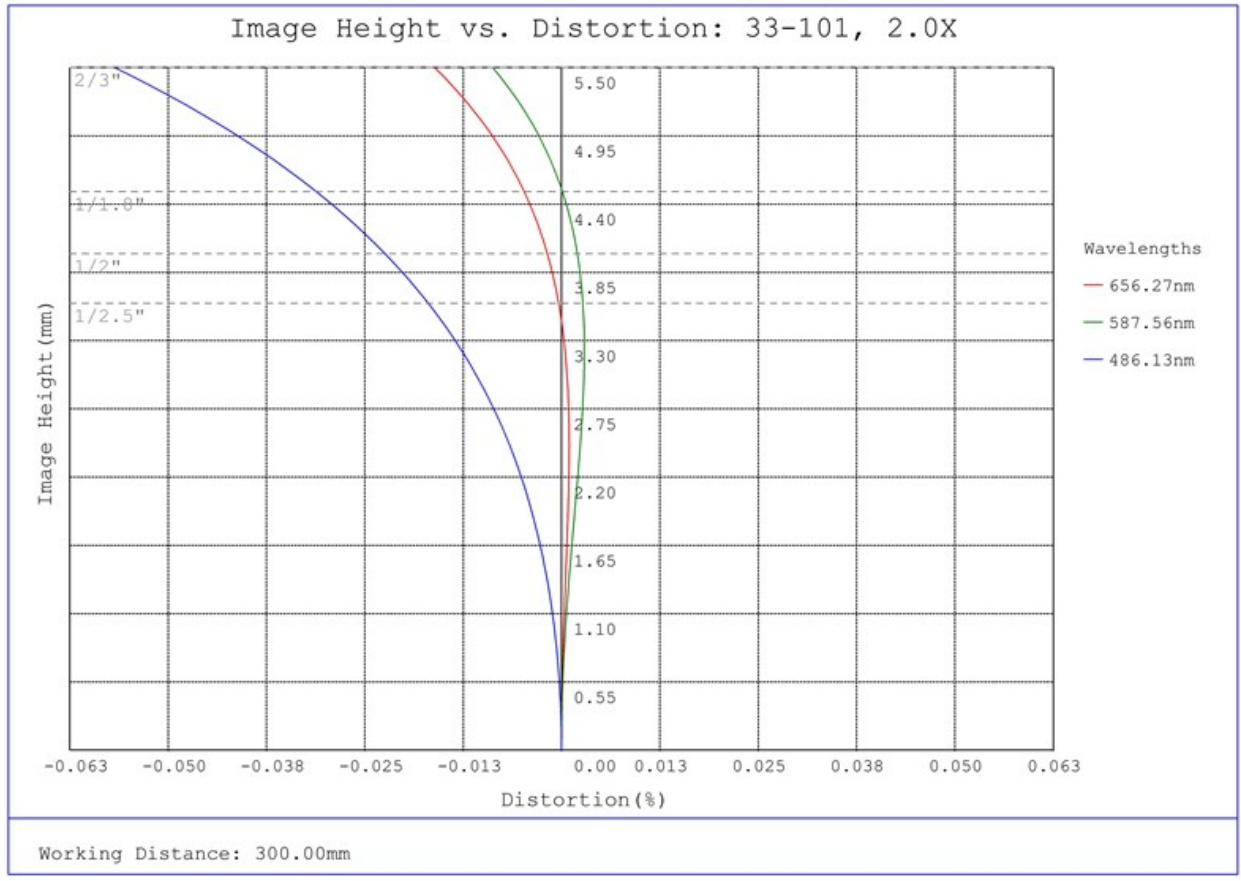
Horizontal Field of View, 1/2" Sensor:	3.2mm
Horizontal Field of View, 2/3" Sensor:	4.4mm
Horizontal Field of View, 1/3" Sensor:	2.4mm
Numerical Aperture NA, Object Side:	0.035
Typical Telecentricity @ 588nm (°):	0.049
Typical Distortion @ 588nm (%):	0.0148
Primary Magnification PMAG:	2X
Maximum Sensor Format:	2/3"
Working Distance (mm):	300
Aperture (f#):	f/28.5
FOV @ Max Sensor Format, H x V (mm):	4.4 x 3.3
Lens Wavelength Range:	VIS

Mechanical

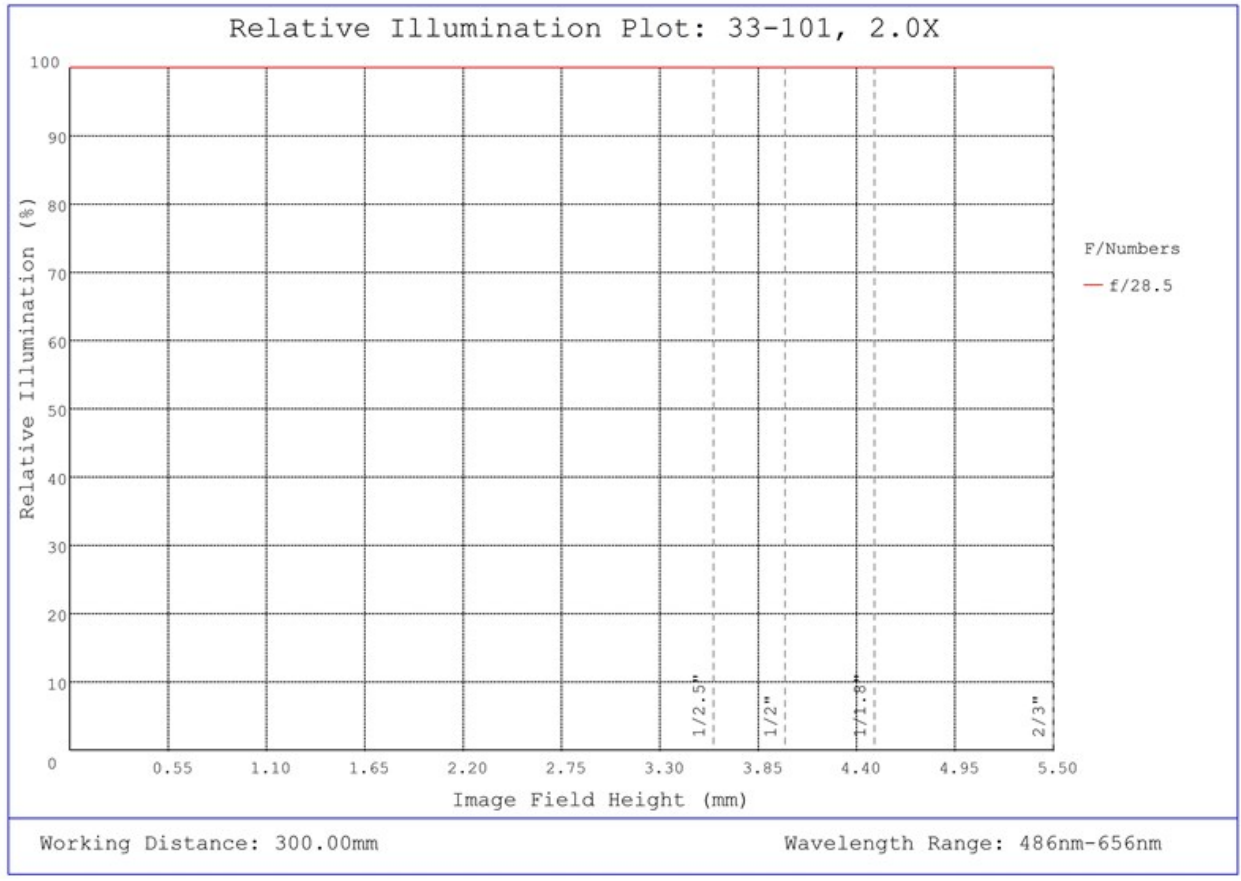
Filter Thread:	M29.0 x 0.50 (Female)
Maximum Diameter (mm):	31.00
Weight (g):	122
Number of Elements (Groups):	5 (4)
Mount:	C-Mount

General

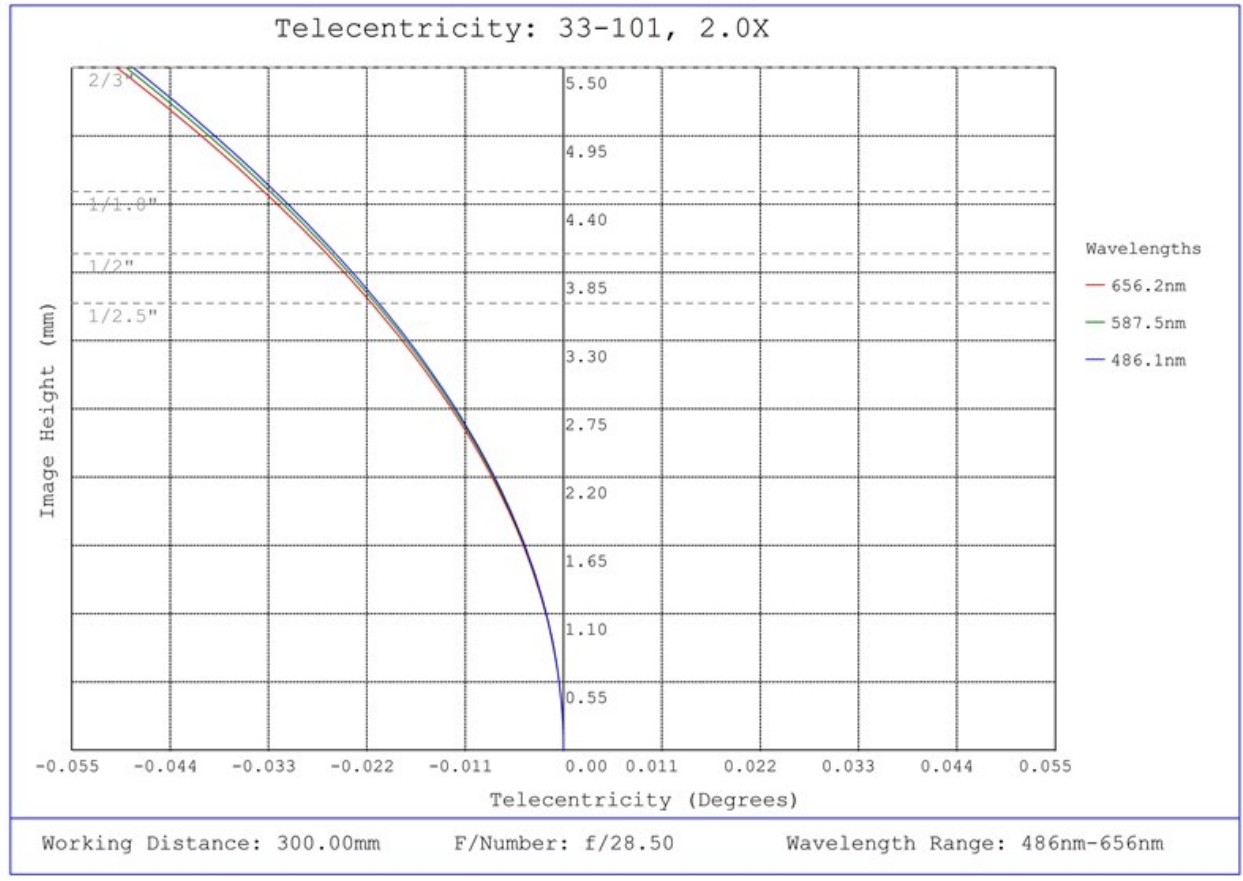
Type:	Telecentric Lens
-------	------------------



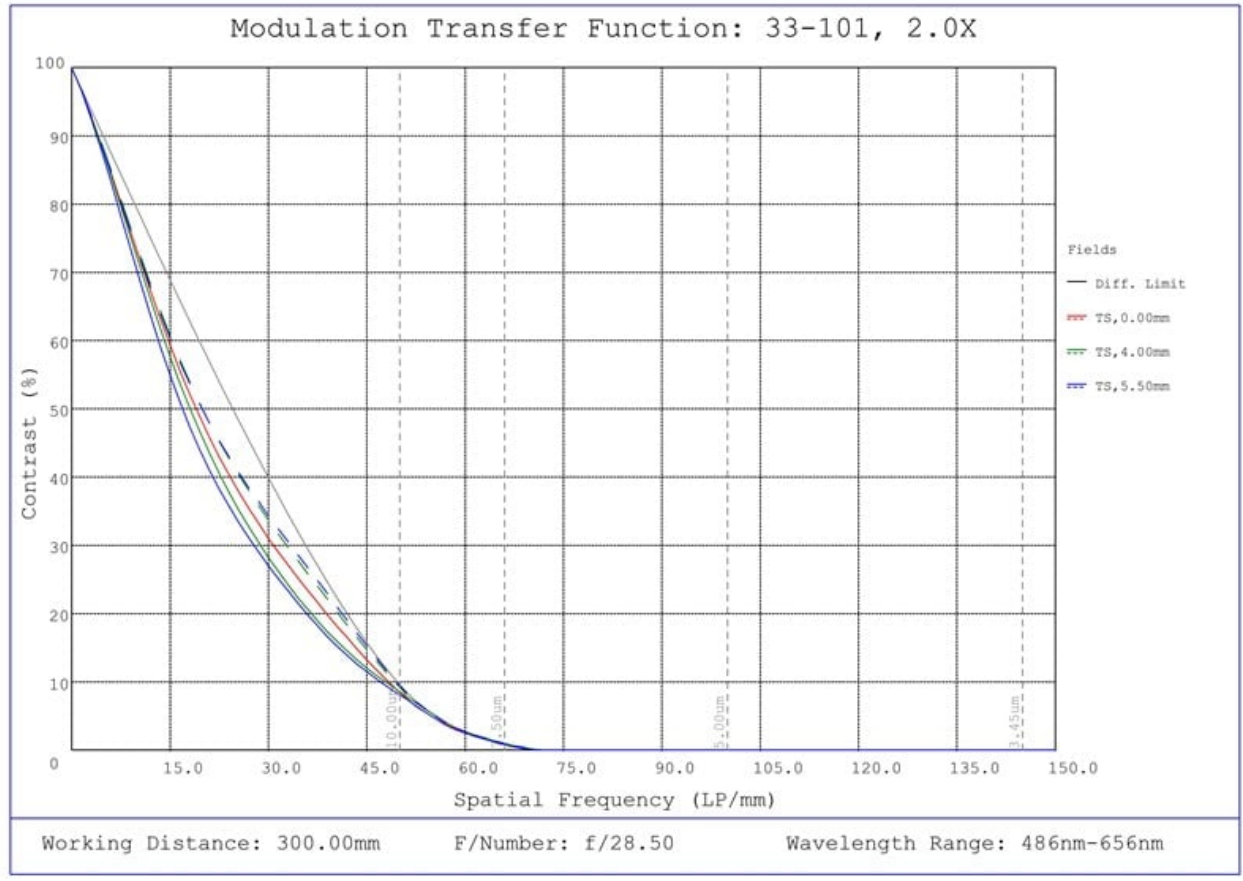
#33-101, 2X, 300mm WD CompactTL™ Telecentric Lens, Distortion Plot



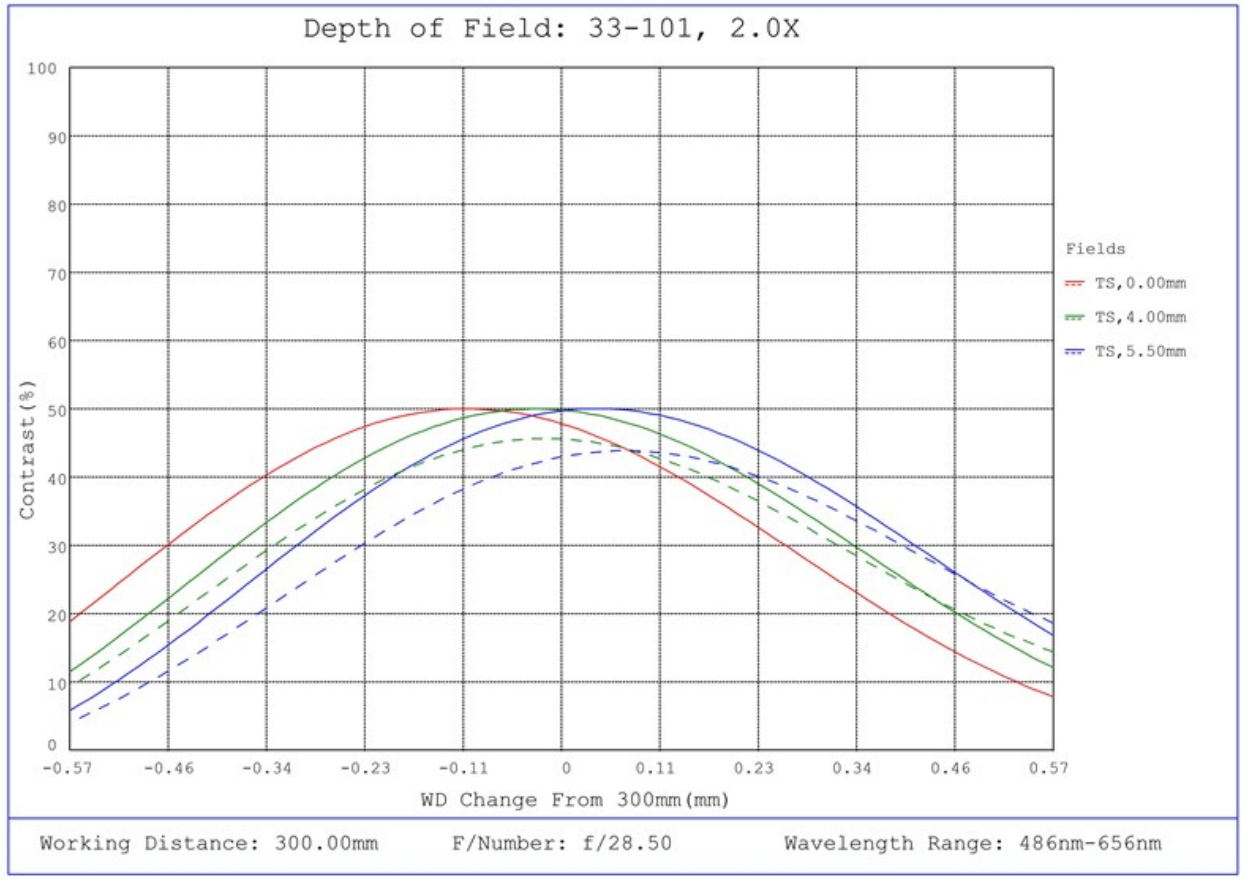
#33-101, 2X, 300mm WD CompactTL™ Telecentric Lens, Relative Illumination Plot



#33-101, 2X, 300mm WD CompactTL™ Telecentric Lens, Telecentricity Plot



#33-101, 2X, 300mm WD CompactTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 300mm Working Distance, f28.5



#33-101, 2X, 300mm WD CompactTL™ Telecentric Lens, Depth of Field Plot, 300mm Working Distance, f28.5



September 25, 2023

To Whom It May Concern,

This document certifies that the product stated below has been reviewed as requested by Edmund Optics:

<i>Stock No.</i>	<i>Description</i>
33-101	2X, 300mm WD CompactTL™ Telecentric Lens

This item is EU RoHS (2015/863/EU) compliant without the use of exemptions.

This certification means that:

- EO's suppliers have confirmed the material composition of this product.
- EO has implemented rigorous procedures to document this compliance.
- The information provided may, or may not, be based upon actual test data, or on information from our Vendors, Raw Material Suppliers or Subcontractors.



Jay Budd, Director of Corporate Compliance
September 25, 2023

Edmund Optics Inc. - 101 E Gloucester Pike, Barrington, NJ 08007 | 1-800-363-1992 | Compliance@edmundoptics.com



September 25, 2023

To Whom It May Concern,

This document certifies that the product stated below has been reviewed as requested by Edmund Optics:

<i>Stock No.</i>	<i>Description</i>
33-101	2X, 300mm WD CompactTL™ Telecentric Lens

This item does not contain any of the substances listed on the Reach SVHC list as of 25 June 2020 in quantities exceeding 0.1% weight by weight.

Please note the following:

- Entry 11 of Annex V of the REACH regulation as amended by regulation 987/2008, exempts “non-hazardous” glass components from registration.
- Items considered to be packing materials and which do not form part of, or are not required for the operation of, the product, are not considered to be within scope of this declaration.
- EO does not routinely analyze products for substances not purposely added or specified within the design specifications, drawings and assembly procedures.

This certification means that:

- EO's suppliers have confirmed the material composition of this product.
- EO has implemented rigorous procedures to document this compliance.
- The information provided may, or may not, be based upon actual test data, or on information from our Vendors, Raw Material Suppliers or Subcontractors.



Jay Budd, Director of Corporate Compliance
September 25, 2023

Edmund Optics Inc. - 101 E Gloucester Pike, Barrington, NJ 08007 | 1-800-363-1992 | Compliance@edmundoptics.com



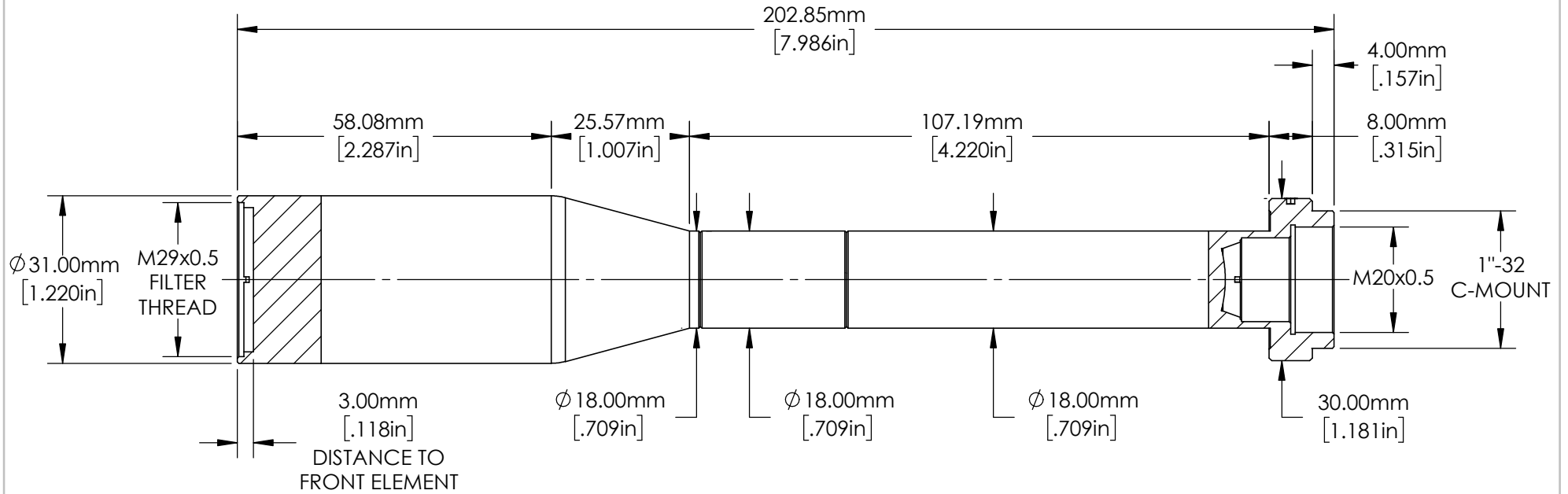
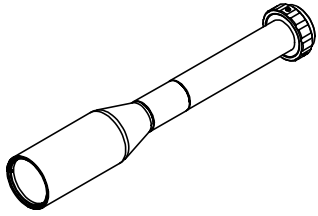
September 25, 2023

<i>Stock No.</i>	<i>Description</i>
33-101	2X, 300mm WD CompactTL™ Telecentric Lens

Edmund Optics certifies that all articles included in this shipment are in compliance with the terms and conditions of this order. The company also certifies that the articles included in this shipment are in accordance to all agreed upon specifications and quality assurance provisions. Please call 1-800-363-1992 should any questions arise from this shipment.



Jeff Harvey- EVP of Operations



**FOR INFORMATION ONLY:
DO NOT MANUFACTURE
PARTS TO THIS DRAWING**

SPECIFICATIONS SUBJECT TO
CHANGE WITHOUT NOTICE
DIMENSIONS ARE FOR
REFERENCE ONLY

EO® Edmund Optics®

THIRD ANGLE PROJECTION		TITLE	2X, 300mm CompactTL Telecentric Lens	
ALL DIMS IN	mm	DWG NO	33101	SHEET 1 OF 1