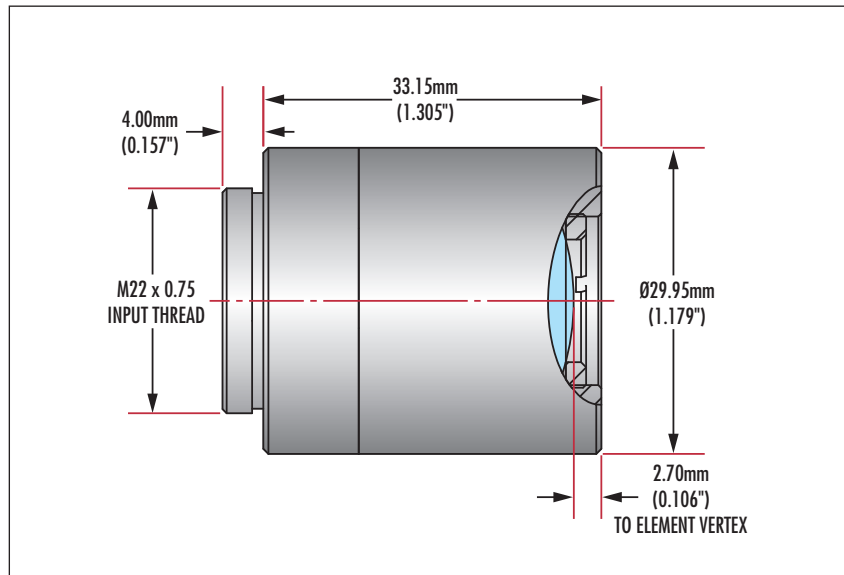
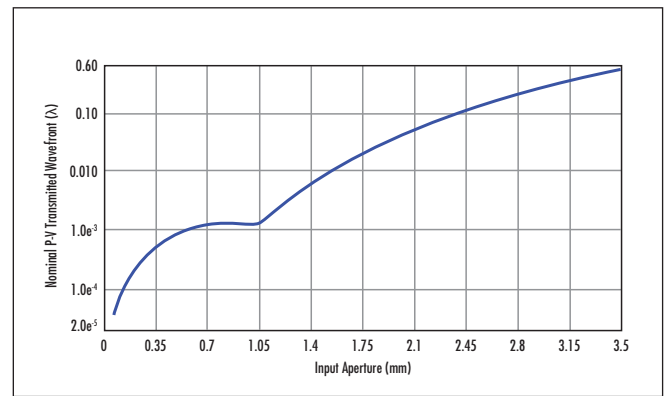


# TECHSPEC® Scorpium™ Nd:YAG Beam Expanders 355nm • 3X #37-049

TECHSPEC® Scorpium™ Nd:YAG Beam Expanders are designed for beam expansion applications such as laser engraving and material processing. These beam expanders feature AR coatings and are designed for the Nd:YAG laser wavelengths 355nm, 532nm, and 1064nm. The Scorpium beam expanders are available in multiple fixed magnifications from 2X to 10X with M22 x 0.75 threading. TECHSPEC® Scorpium™ Nd:YAG Beam Expanders are a cost-effective solution for system integration. Ideal for OEM quantities, these beam expanders can quickly meet prototyping and application timelines.

<b>Design Wavelength:</b>	355nm
<b>Expansion Power:</b>	3X
<b>Design Wavefront (P-V):</b>	$\lambda/4$
<b>Max Beam to Fill 85% of Output Aperture*:</b>	3.4mm
<b>Transmission @ DWL:</b>	91%
<b>Entrance Aperture:</b>	3.7mm
<b>Exit Aperture:</b>	12mm
<b>Housing Diameter:</b>	29.95mm
<b>Overall Length:</b>	33mm
<b>Weight:</b>	56g
<b>Mounting Thread:</b>	M22 x 0.75
<b>Substrate:</b>	Optical Glass
<b>Divergence Adjustment:</b>	None

\*Maximum beam diameter to utilize full clear aperture of the beam expander  
Specifications subject to change



TECHSPEC® Scorpium™ Nd:YAG Beam Expanders are designed with diffraction-limited performance for a range of input beam diameters. These beam expanders are designed to increase the input beam diameter to a larger collimated beam. For custom wavelength and magnification combinations, please contact us.