TECHSPEC® UV-VIS VEGA™ BROADBAND BEAM EXPANDERS
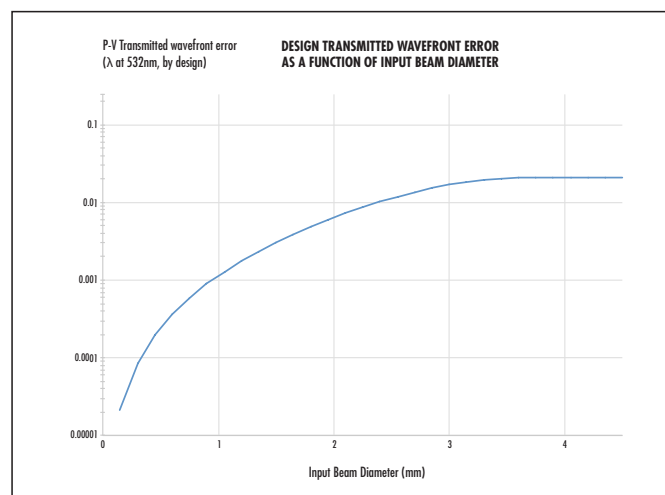## 250-532nm • 7X #39-732

- Broadband Designs for Tunable Lasers
- λ/10 Transmitted Wavefront Error
- Divergence Adjustment to Compensate for Input Beam Divergence
- TECHSPEC® Vega™ Nd:YAG Laser Line Beam Expanders Also Available

TECHSPEC® Vega™ Broadband Beam Expanders are designed for demanding tunable laser sources. These compact beam expanders are optimized at a wide range of wavelengths, with designs achieving λ/10 transmitted wavefront error and no internally focusing ghost images for compatibility with high power lasers. TECHSPEC® Vega™ Broadband Beam Expanders are easily integrated into prototype and advanced applications, while maintaining quality across the adjustment range. They are ideal for medical laser applications employing highly tunable Thulium and Holmium sources.

For more information on beam expanders and their application, please see online for our Technical Resource: **Application Note on Beam Expanders.**
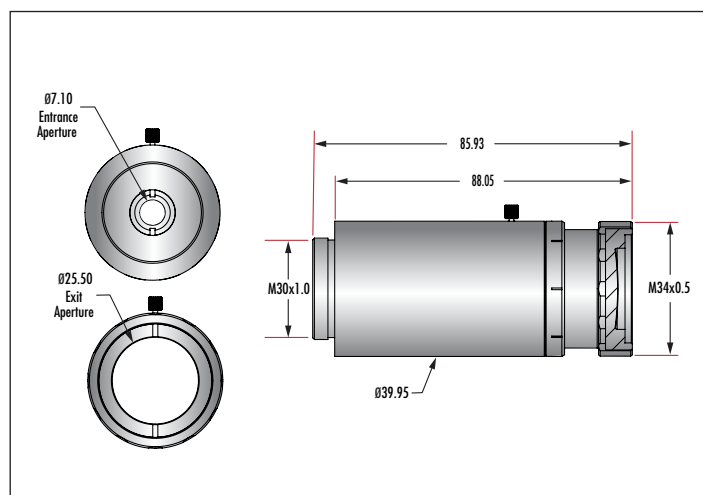
Wavelength Range (nm):	250-532
Expansion Power:	7X
Entrance Aperture (mm):	7.1
Exit Aperture (mm):	25.5
Transmitted Wavefront, P-V:	λ/10 for 2.6mm input beam (nominal, λ = DWL)
Mounting Threads:	Input: Male M30 x 1 Output: Female M34 x 0.5
Substrate:	Fused Silica
Housing Diameter (mm):	39.95
Length (mm):	94.55
Angle of Incidence (°):	0
Coating:	Laser UV-VIS (250-532nm)
Transmission (%):	>92.5% (nominal)
Coating Specification:	R_{avg} ≤1.25% @ 250-532nm @ 0° AOI
Damage Threshold, Pulsed:	1 J/cm² @ 532nm, 20ns, 20Hz
Divergence Adjustment:	Rotating Optics

P-V Transmitted wavefront error (λ at 532nm, by design)

DESIGN TRANSMITTED WAVEFRONT ERROR AS A FUNCTION OF INPUT BEAM DIAMETER