

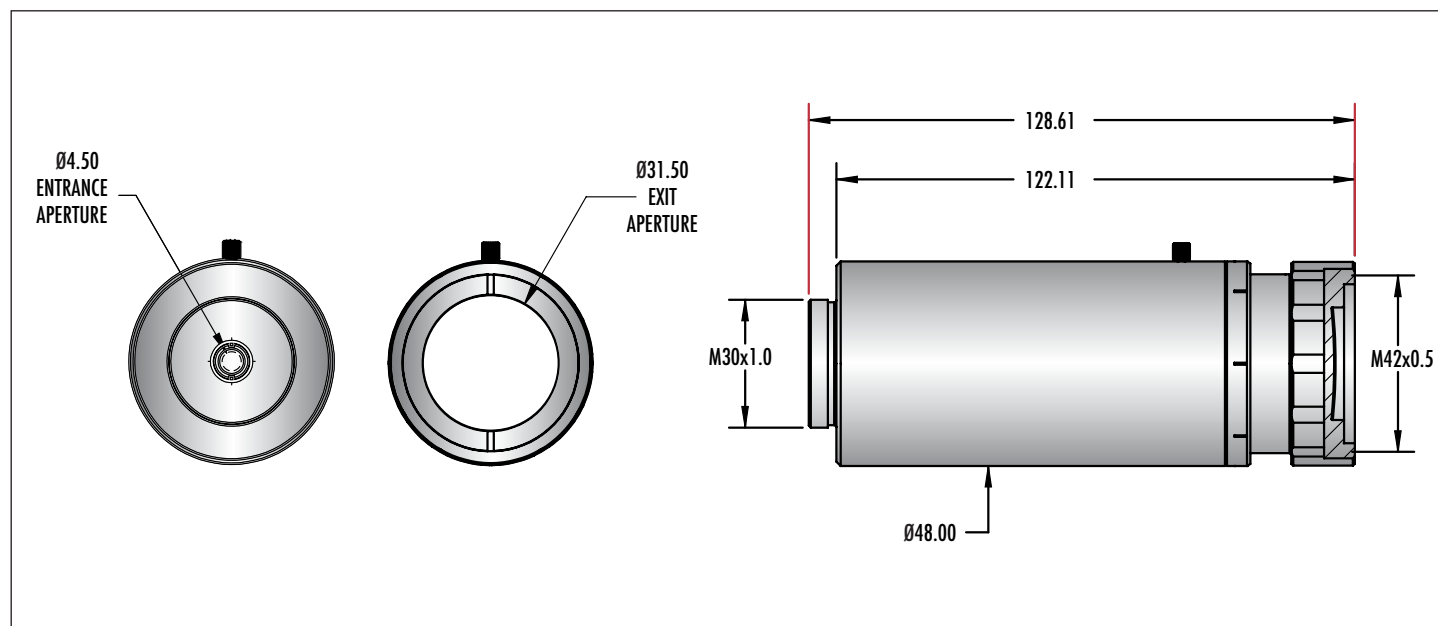
TECHSPEC® VIS-NIR VEGA™ BROADBAND BEAM EXPANDERS 500-1090nm • 20X #39-741

- Broadband Designs for Tunable Lasers
- $\lambda/10$ 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 $\lambda/10$ 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.

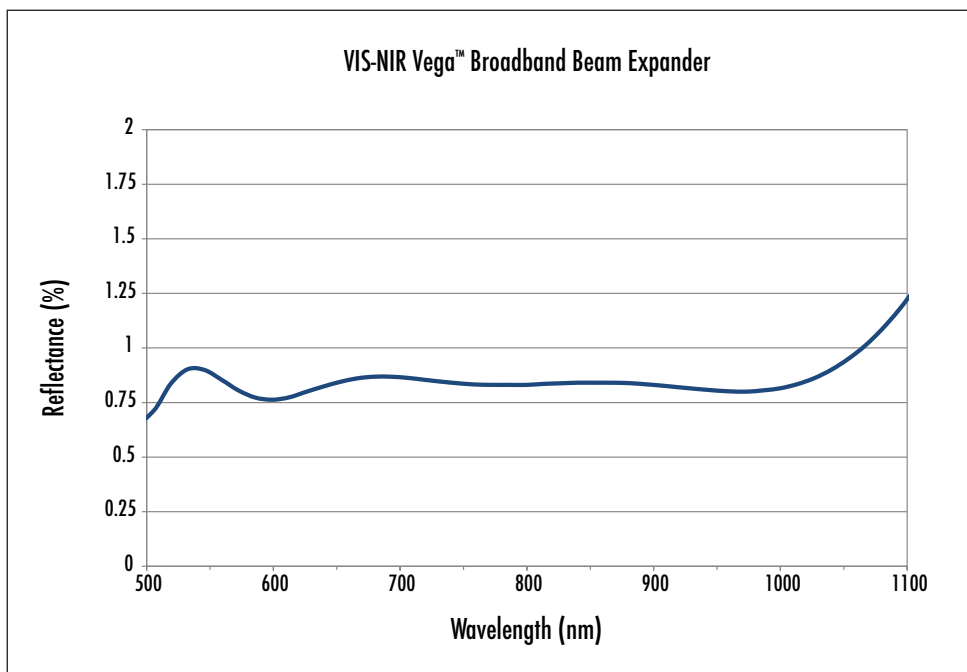
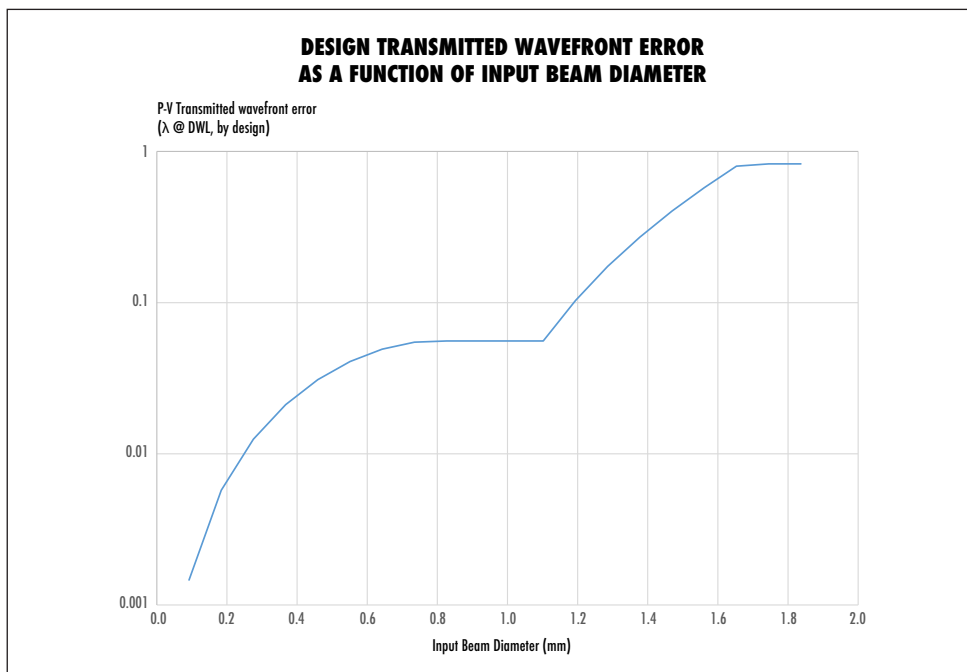
For more information on beam expanders and their application, please see online for our Technical Resource: [Application Note on Beam Expanders](#)

Wavelength Range:	500-1090nm
Expansion Power:	20X
Entrance Aperture:	4.5mm
Exit Aperture:	31.5mm
Transmitted Wavefront, P-V:	$\lambda/10$ @ 1.1mm input beam (nominal, λ = DWL)
Mounting Threads:	Input: Male M30 x 1 Output: Female M27 x 0.5
Substrate:	Fused Silica
Housing Diameter:	48mm
Length:	128.61mm
Angle of Incidence:	0°
Coating:	Laser VIS-NIR (500-1090nm)
Transmission:	>94.0% (nominal)
Coating Specification:	$R_{\text{avg}} \leq 1\%$ @ 500-1090nm @ 0° AOI
Damage Threshold, Pulsed:	2 J/cm² @ 1064nm, 20ns, 20Hz
Divergence Adjustment:	Rotating Optics



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