TECHSPEC®
2µm HIGH POWER VEGA™ BROADBAND BEAM EXPANDER
1940nm • 3X #37-341

- 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.**

Design Wavelength (DWL):	1940nm
Magnification:	3X
Maximum Input Aperture:	10mm
Divergence Adjustable:	Rotating Optics
Maximum Output Aperture:	23mm
Length (With Threads):	83mm
Housing Outer Diameter:	29.95mm
Weight:	78g
Transmission @ DWL:	>99% (nominal)
Lens Material:	Fused Silica 7979
Coating:	R_{avg} <0.1% @ 1940nm - 1950nm R_{avg} <0.5% @ 1900nm - 2100nm R_{avg} <0.25% @ 2000nm - 2100nm
Mounting Thread:	M30 x 1

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

DESIGN TRANSMITTED WAVEFRONT ERROR AS A FUNCTION OF INPUT BEAM DIAMETER

Input Beam Diameter (mm)