

**TECHSPEC® 80mm EFL, Nd:YAG Air-Spaced Focusing Doublet**



Stock #12-163 [CONTACT US](#)

- 1 + £564.<sup>00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-5	£564.00 each
Qty 6-25	£496.00 each
Qty 26+	£444.00 each
Need More?	<a href="#">Request Quote</a>

! Prices shown are exclusive of VAT/local taxes

Product Downloads

**General**

Focusing Achromat **Type:**

**Physical & Mechanical Properties**

27.0 **Clear Aperture CA (mm):**

1.0 **Center Air Spacing (mm):**

36 ±0.25	<b>Housing Diameter (mm):</b>
16.1 ±0.2	<b>Housing Length (mm):</b>
Anodized Aluminum Housing	<b>Construction:</b>

## Optical Properties

80.00 @ 1064nm	<b>Effective Focal Length EFL (mm):</b>
<a href="#">N-SK5 / N-SF57</a>	<b>Substrate:</b> <input type="checkbox"/>
20-10	<b>Surface Quality:</b>
3.0	<b>f#:</b>
Dual V-Coat (632.8 and 1064nm)	<b>Coating:</b>
R <sub>abs</sub> <0.5% @ 1030 - 1090nm R <sub>abs</sub> <1.0% @ 632.8nm	<b>Coating Specification:</b>
632.8, 1064	<b>Design Wavelength DWL (nm):</b>
≥99	<b>Transmission (%):</b>
70.88	<b>Working Distance (mm):</b>
λ/4 On central 18mm	<b>Transmitted Wavefront Error, RMS:</b>
≥10 J/cm <sup>2</sup> @ 1064nm, 20Hz, 10ns (typical)	<b>Damage Threshold, By Design:</b> <input type="checkbox"/>

## Threading & Mounting

Input: M34 x 0.75 Output: M34 x 0.75	<b>Mounting Threads:</b>
---	--------------------------

## Regulatory Compliance

<a href="#">View</a>	<b>Certificate of Conformance:</b>
----------------------	------------------------------------

## Product Details

- Color Corrected at 632.8nm and 1064nm
- Optimized to Reduce Spherical Aberration
- Minimizes Spot Size for Materials Processing

TECHSPEC® Nd:YAG Air-Spaced Achromatic Focusing Doublets achieve diffraction limited performance at 1064nm. These lenses are designed for use with high power Nd:YAG laser systems utilizing a HeNe laser for alignment and also for laser welding and processing of aluminum, steel, and plastics. Filling the performance gap between more economical single element spherical lenses with worse performance and aspheres with diffraction limited performance, these lenses provide achromatic performance that single lens element solutions cannot. TECHSPEC® Nd:YAG Air-Spaced Achromatic Focusing Doublets are ideal in aluminum, plastic, and other material laser processing applications.

## Technical Information

