

**TECHSPEC® 12.7mm Dia., 355nm T, 532 & 1064nm R 45° Thin Harmonic Separator**



TECHSPEC Nd:YAG Harmonic Separators

Stock **#29-052** **7 In Stock**

⊖ 1 ⊕ **S\$411<sup>00</sup>**

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Volume Pricing	
Qty 1-5	<b>S\$411.60</b> each
Qty 6-24	<b>S\$369.60</b> each
Qty 25-49	<b>S\$329.00</b> each
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**General**

Laser Window Substrate **Type:**

**Physical & Mechanical Properties**

90 **Clear Aperture (%):**

Dichroic **Construction:**

12.70 +0.00/-0.10	<b>Diameter (mm):</b>
<3	<b>Parallelism (arcmin):</b>
3.18 ± 0.20	<b>Thickness (mm):</b>
<b>Optical Properties</b>	
45	<b>Angle of Incidence (°):</b>
<b>Coating Specification:</b>	
Surface 1: R <sub>abs</sub> : >99% @ 532, 1064nm, T <sub>abs</sub> : >90% @ 355nm	
Surface 2: R <sub>abs</sub> : <0.5% @ 355nm	
532, 1064	<b>Reflection Wavelength (nm):</b>
<a href="#">Fused Silica</a> (Corning 7980)	<b>Substrate:</b> <input type="checkbox"/>
λ/10	<b>Surface Flatness (P-V):</b>
10-5	<b>Surface Quality:</b>
355	<b>Transmission Wavelength (nm):</b>
<b>Damage Threshold, Reference:</b> <input type="checkbox"/>	
Surface 1: 5 J/cm <sup>2</sup> @ 532nm, 20ns, 20Hz 7.5 J/cm <sup>2</sup> @ 1064nm, 20ns, 20Hz 2.5 J/cm <sup>2</sup> @ 355nm, 20ns, 20Hz	
Surface 2: 7.5 J/cm <sup>2</sup> @ 355nm, 20ns, 20Hz	

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

## Product Details

- Used to Separate Nd:YAG Harmonic Wavelengths
- Beamsplitter Coating Features >95% Transmission
- λ/10 Fused Silica Substrate

TECHSPEC® Nd:YAG Harmonic Separators are used to separate the common harmonic wavelengths of an Nd:YAG laser. A beamsplitter coating on the first surface reflects at least one wavelength and transmits another. The second surface of the beamsplitter features an anti-reflective coating to minimize the loss due to reflection. TECHSPEC Nd:YAG Harmonic Separators are available in 45° and 0° angle of incidence options. These harmonic separators are available in multiple wavelength configurations for optimal flexibility in system design.

**Note:** The Damage Threshold values we publish for this family of products were all tested independently from one another. When using these products with more than 1 incident beam, the resulting Damage Threshold of the system will be negatively impacted.