

TECHSPEC® 12.7mm Dia., 532 & 1064nm T, 266nm R 45° Thin Harmonic Separator



TECHSPEC Nd:YAG Harmonic Separators

Stock **#29-038** **3 In Stock**

⊖ 1 ⊕ A\$470⁰⁰

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Volume Pricing	
Qty 1-5	A\$470.40 each
Qty 6-24	A\$422.40 each
Qty 25-49	A\$376.00 each
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General

Laser Window Substrate **Type:**

Physical & Mechanical Properties

90 **Clear Aperture (%):**

Dichroic **Construction:**

12.70 +0.00/-0.10	Diameter (mm):
<3	Parallelism (arcmin):
3.18 ± 0.20	Thickness (mm):
Optical Properties	
45	Angle of Incidence (°):
Coating Specification:	
Surface 1: R _{abs} : >95% @ 266nm, T _{abs} : >98% @ 532nm, T _{abs} : >98% @ 1064nm	
Surface 2: R _{abs} : <1.0% @ 532nm, R _{abs} : <1.0% @ 1064nm	
266	Reflection Wavelength (nm):
Fused Silica (Corning 7980)	Substrate: <input type="checkbox"/>
M10	Surface Flatness (P-V):
10-5	Surface Quality:
532, 1064	Transmission Wavelength (nm):
Damage Threshold, By Design: <input type="checkbox"/>	
Surface 1:	
1 J/cm ² @ 266nm, 20ns, 20Hz	
5 J/cm ² @ 532nm, 20ns, 20Hz	
7.5 J/cm ² @ 1064nm, 20ns, 20Hz	
Surface 2:	
10 J/cm ² @ 20ns, 20Hz @ 532nm	
15 J/cm ² @ 20ns, 20Hz @ 1064nm	

Regulatory Compliance	
View	Certificate of Conformance:

Product Details

- Used to Separate Nd:YAG Harmonic Wavelengths
- Beamsplitter Coating Features >95% Transmission
- M10 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.