

TECHSPEC[®] 12.7mm Dia., 532nm T, 355nm R 45° Thin Harmonic Separator



TECHSPEC Nd:YAG Harmonic Separators

Stock **#29-042** 7 In Stock

-

1

+

£180⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-5	£180.80 each
Qty 6-24	£162.40 each
Qty 25-49	£144.80 each
Need More?	Request Quote

i Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Laser Window Substrate

Type:

Physical & Mechanical Properties

90

Clear Aperture (%):

Construction:

Dichroic	
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} : >99% @ 355nm, T _{abs} : >95% @ 532nm Surface 2: R _{abs} : <0.5% @ 532nm	
355	Reflection Wavelength (nm):
Fused Silica (Corning 7980)	Substrate: ☐
λ/10	Surface Flatness (P-V):
10-5	Surface Quality:
532	Transmission Wavelength (nm):
Damage Threshold, By Design: ☐ Surface 1: 2.5 J/cm² @ 355nm, 20ns, 20Hz 5 J/cm² @ 532nm, 20ns, 20Hz Surface 2: 10 J/cm² @ 532nm, 20ns, 20Hz	
Regulatory Compliance	
View	Certificate of Conformance:

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.