

TECHSPEC<sup>®</sup> 12.7mm Dia., 532nm T, 1064nm R 45° Thin Harmonic Separator



TECHSPEC Nd:YAG Harmonic Separators

Stock **#29-054** 14 In Stock

-

1

+

£235<sup>20</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | £235.20 each                  |
| Qty 6-24       | £211.20 each                  |
| Qty 25-49      | £188.00 each                  |
| Need More?     | <a href="#">Request Quote</a> |

**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 (°):                               |
| Surface 1: R <sub>abs</sub> : >99% @ 1064nm, T <sub>abs</sub> : >95% @ 532nm<br>Surface 2: R <sub>abs</sub> : <0.5% @ 532nm                                     | Coating Specification:                                |
| 1064                                                                                                                                                            | Reflection Wavelength (nm):                           |
| Fused Silica (Corning 7980)                                                                                                                                     | Substrate: <input type="checkbox"/>                   |
| λ/10                                                                                                                                                            | Surface Flatness (P-V):                               |
| 10-5                                                                                                                                                            | Surface Quality:                                      |
| 532                                                                                                                                                             | Transmission Wavelength (nm):                         |
| Surface 1:<br>7.5 J/cm <sup>2</sup> @ 1064nm, 20ns, 20Hz<br>7.5 J/cm <sup>2</sup> @ 532nm, 20ns, 20Hz<br>Surface 2:<br>10 J/cm <sup>2</sup> @ 532nm, 20ns, 20Hz | Damage Threshold, By Design: <input type="checkbox"/> |
| 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.