

TECHSPEC<sup>®</sup> 25.4mm Dia., 355nm T, 532nm R 45° Harmonic Separator



TECHSPEC Nd:YAG Harmonic Separators

Stock **#37-717** **8 In Stock**

-

1

+

C\$422<sup>00</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | C\$422.80 each                |
| Qty 6-24       | C\$380.80 each                |
| Qty 25-49      | C\$338.80 each                |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

| General                          |                     |
|----------------------------------|---------------------|
| Harmonic Beamsplitter            | Type:               |
| Physical & Mechanical Properties |                     |
| >85                              | Clear Aperture (%): |
| Dichroic                         | Construction:       |

|                                                                                                                                                                                                                        |                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| 25.40 +0.00/-0.10                                                                                                                                                                                                      | Diameter (mm):                      |
| <3                                                                                                                                                                                                                     | Parallelism (arcmin):               |
| 6.35 ±0.20                                                                                                                                                                                                             | Thickness (mm):                     |
| Optical Properties                                                                                                                                                                                                     |                                     |
| 45                                                                                                                                                                                                                     | Angle of Incidence (°):             |
| Coating Specification:<br>Surface 1: R <sub>abs</sub> : >99% @ 532nm, T <sub>abs</sub> : >95% @ 355nm<br>Surface 2: R <sub>abs</sub> : <0.5% @ 355nm                                                                   |                                     |
| 532                                                                                                                                                                                                                    | Reflection Wavelength (nm):         |
| Fused Silica (Corning 7980)                                                                                                                                                                                            | Substrate: <input type="checkbox"/> |
| λ/10                                                                                                                                                                                                                   | Surface Flatness (P-V):             |
| 10-5                                                                                                                                                                                                                   | Surface Quality:                    |
| 355                                                                                                                                                                                                                    | Transmission Wavelength (nm):       |
| Damage Threshold, Reference: <input type="checkbox"/><br>Surface 1:<br>5 J/cm <sup>2</sup> @ 532nm, 20ns, 20Hz<br>2.5 J/cm <sup>2</sup> @ 355nm, 20ns, 20Hz<br>Surface 2:<br>7.5 J/cm <sup>2</sup> @ 355nm, 20ns, 20Hz |                                     |
| Regulatory Compliance                                                                                                                                                                                                  |                                     |
| Compliant                                                                                                                                                                                                              | RoHS 2015:                          |
| Compliant                                                                                                                                                                                                              | Reach 209:                          |
| 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.

## Compatible Mounts