

# 1.0" x 1.0", FL 0.37", IR Fresnel Lens



Infrared (IR) Fresnel Lenses

Stock **#43-794** 10 TO 12 DAYS



1



₹2,915.00

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Qty 1-10

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Effective Focal Length EFL (mm):

9.40

Substrate: ☐

PolyIR

Coating:

Uncoated

Type:

|                                                                                                           |
|-----------------------------------------------------------------------------------------------------------|
| Fresnel Lens                                                                                              |
| <b>Wavelength Range (nm):</b><br>8000 - 14000                                                             |
| <b>Center Thickness CT (inches):</b><br>0.02                                                              |
| <b>Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):</b><br>11 - 13                              |
| <b>Dimensions (inches):</b><br>1.0 x 1.0                                                                  |
| <b>Dimensions (mm):</b><br>25.4 x 25.4                                                                    |
| <b>Effective Diameter (inches):</b><br>0.5                                                                |
| <b>Effective Focal Length EFL (inches):</b><br>0.37                                                       |
| <b>Flexural Modulus (psi):</b><br>(100-260) × 10 <sup>3</sup>                                             |
| <b>Groove Density (grooves/inch):</b><br>250.00                                                           |
| <b>Index of Refraction n<sub>d</sub>:</b><br>Visible (Sodium D Line): 1.52<br>8-14µm: 1.53<br>15µm+: 1.48 |
| <b>Operating Temperature (°C):</b><br>100.00                                                              |
| <b>Shore Hardness:</b><br>D60-70                                                                          |
| <b>Wavelength Range (µm):</b><br>8 - 14                                                                   |
| <b>Young's Modulus (GPa):</b><br>0.40 - 1.24                                                              |

Regulatory Compliance

|                                                            |
|------------------------------------------------------------|
| <b>RoHS 2015:</b><br><a href="#">Compliant</a>             |
| <b>Reach 224:</b><br><a href="#">Compliant</a>             |
| <b>Certificate of Conformance:</b><br><a href="#">View</a> |