IS12L-9S-RSI
Integrating sphere detector for laser power measurement up to 9 W.

KEY FEATURES

AVAILABLE SOON
Receive an alert when it becomes available

FASTEST RESPONSE
With its silicon sensor, the integrating sphere is as fast as a photodiode.

HIGH AVERAGE POWER
Measure up to 9 W of continuous power.

RESISTANT COATING
Our proprietary coating is designed to be strong. Its damage thresholds are orders of magnitude higher than any other "white" coatings on the market.

PRECISE CALIBRATION
The IS12L detectors have a NIST-traceable calibration for their entire spectral range. Temperature compensation completes the calibration to give you the most accurate and stable measurements.

CHOICE OF OUTPUT
The IS12L detectors are available with two output options:
- INTEGRA with USB output (-INT)
- INTEGRA with RS-232 output (-IDR)

COMPATIBLE STAND
STAND-D-233

SPECIFICATIONS

MEASUREMENT CAPABILITIES

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum average power (continuous)¹</td>
<td>9 W</td>
</tr>
<tr>
<td>Noise equivalent power²</td>
<td>1 μW</td>
</tr>
<tr>
<td>Spectral range</td>
<td>400 - 1065 nm</td>
</tr>
<tr>
<td>Typical rise time</td>
<td>0.2 sec</td>
</tr>
<tr>
<td>Power calibration uncertainty</td>
<td>±5.0 % (400 - 499 nm)</td>
</tr>
<tr>
<td></td>
<td>±3.5 % (500 - 1063 nm)</td>
</tr>
<tr>
<td></td>
<td>±2.5 % (1064 nm)</td>
</tr>
<tr>
<td>Linearity with power</td>
<td>±1 %</td>
</tr>
<tr>
<td>Sphere inner diameter</td>
<td>50 mm Ø</td>
</tr>
<tr>
<td>Maximum incidence angle</td>
<td>± 10°</td>
</tr>
<tr>
<td>Maximum divergence</td>
<td>10° (half-angle)</td>
</tr>
</tbody>
</table>

1. At 1064 nm. See curves for maximum power at other wavelengths.
2. At 1064 nm. Nominal value. Actual value depends on environmental electromagnetic interference and wavelength.

DAMAGE THRESHOLDS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum average power density¹</td>
<td>2 kW/cm²</td>
</tr>
<tr>
<td>Maximum energy density²</td>
<td>400 mJ/cm²</td>
</tr>
</tbody>
</table>

1. At 1064 nm, CW.
2. At 1064 nm, 7 ns.

PHYSICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aperture diameter</td>
<td>12 mm</td>
</tr>
<tr>
<td>Absorber</td>
<td>Si</td>
</tr>
<tr>
<td>Dimensions</td>
<td>66H x 78W x 66D mm</td>
</tr>
</tbody>
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ORDERING INFORMATION

INTERESTED IN THIS PRODUCT?
GET A QUOTE

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