The Model 1206C-2-1002 is designed primarily for use in applications requiring very high output good beam quality and high beam pointing stability e.g. holographic mastering.

**SPECIFICATIONS**

- **Interaction Material:** TeO₂ (Longitudinal Mode)
- **Standard Operating Wavelengths:** 360 – 420nm, 442 - 488nm
- **Polarization:** Vertical preferred
- **Acoustic Velocity:** 4200 m/s
- **Active Aperture:** 2mmH x 9mmW
- **Centre Frequency:** 110 MHz
- **RF Bandwidth:** 50 MHz
- **Input Impedance:** 50 ohms (Nominal)
- **VSWR:** < 1.5:1 @ 110 MHz
- **DC. Contrast Ratio:** > 1000:1 min (2000:1 typical)

**PERFORMANCE**

<table>
<thead>
<tr>
<th>Wavelength</th>
<th>360nm</th>
<th>405nm</th>
<th>442nm</th>
<th>488nm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Static Insertion Loss:</td>
<td>≤7.0%</td>
<td>≤4.0%</td>
<td>≤3.0%</td>
<td>≤3.0%</td>
</tr>
<tr>
<td>RF Power:</td>
<td>≤0.4W</td>
<td>≤ 0.6W</td>
<td>≤ 0.6W</td>
<td>≤ 0.7W</td>
</tr>
<tr>
<td>Separation Angle @ 110 MHz:</td>
<td>9.4mrad</td>
<td>10.6mrad</td>
<td>11.6mrad</td>
<td>12.8mrad</td>
</tr>
<tr>
<td>Bragg Angle @ 110MHz:</td>
<td>4.7mrad</td>
<td>5.3mrad</td>
<td>5.8mrad</td>
<td>6.4mrad</td>
</tr>
</tbody>
</table>

- **Beam Diameter (width):** 180um, 1mm, 2mm (9mm)
- **Diffraction Efficiency:** >80.0%, >85.0%, >85.0%, >85.0%
- **Rise Time (modulator use):** 30ns, 150ns, 300ns
- **Max angular resolution (deflector use):** 24, 100
1206C-2-1002
Acousto-Optic Modulator

OUTLINE DRAWING

Dimn: mm
(1" = 25.4mm)

Options:
- M = M3 metric mounting screws

DRIVERS

523C-L (Digital Modulation), 15Vdc
523C-2 (Digital Modulation), 24Vdc
533C-L (Analog modulation), 15Vdc
533C-2 (Analog modulation), 24Vdc

620C-100 (Variable Frequency & Digital Modulation)
630C-100 (Variable frequency & Analog Modulation)