1260C
Acousto-Optic Modulator

APPLICATIONS
Very High Speed Modulation
Frequency Shifter

SPECIFICATIONS
Interaction Material: TeO₂ (Longitudinal Mode)
Laser Wavelength: A/R: 360-442nm, 488-633nm or 633-830nm
Acoustic Velocity: 4200 m/s
Input Beam Polarization: Linear, Vertical
Active Aperture: 0.2mm
Clear Aperture: 1 mm
Center Frequency: 350 MHz
RF Bandwidth: 200 MHz
RF power limit: 1W

RISETIME vs. BEAM DIAMETER at 532nm

<table>
<thead>
<tr>
<th>Input Beam Diameter (μm)</th>
<th>75</th>
<th>55</th>
<th>35</th>
</tr>
</thead>
<tbody>
<tr>
<td>Risetime (ns)</td>
<td>12</td>
<td>9</td>
<td>6</td>
</tr>
<tr>
<td>Diffraction Efficiency (%)</td>
<td>&gt;80</td>
<td>&gt;80</td>
<td>&gt;72</td>
</tr>
</tbody>
</table>

532nm, (theoretical)

\* At reduced efficiency

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
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Quality Assured.
In-house: Crystal Growth,
Optical Polishing,
A/R coating, Vacuum Bonding.
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PERFORMANCE vs. WAVELENGTH

<table>
<thead>
<tr>
<th>Wavelength (nm)</th>
<th>413</th>
<th>532</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF Drive Power (W)</td>
<td>0.7</td>
<td>1.0</td>
</tr>
<tr>
<td>Maximum Efficiency (%)</td>
<td>80</td>
<td>80</td>
</tr>
<tr>
<td>Bragg angle (mrad)</td>
<td>17.2</td>
<td>22.2</td>
</tr>
<tr>
<td>Beam Separation (mrad)</td>
<td>34.4</td>
<td>44.4</td>
</tr>
<tr>
<td>Static Insertion Loss (%)</td>
<td>&lt;4</td>
<td>&lt;3</td>
</tr>
</tbody>
</table>

OUTLINE DRAWING

[Please contact Isomet for alternate case styles and operating wavelengths]

RECOMMENDED RF DRIVE ELECTRONICS

Model 537C (Analog Modulation)