

**SPECIFICATIONS**

|                          |              |                        |
|--------------------------|--------------|------------------------|
| AO Medium                |              | TeO2                   |
| Acoustic Velocity        |              | 4.2 mm/μs              |
| Active Aperture*         | 2.5 mm 'L' X | 0.32 mm 'H'            |
| Center Frequency (Fc)    |              | 200 MHz                |
| RF Bandwidth             | 50 MHz @     | -10 dB Return Loss     |
| Input Impedance          |              | 50 Ohms Nominal        |
| VSWR @ Fc                |              | 1.3 :1 Max             |
| Wavelength               |              | 780-850 nm             |
| Insertion Loss           |              | 3 % Max                |
| Reflectivity per Surface |              | 1 % Max                |
| Anti-Reflection Coating  |              | MIL-C-48497            |
| Optical Power Density    |              | 250 W/mm <sup>2</sup>  |
| Contrast Ratio           |              | 1000 :1 Min            |
| Polarization             |              | 90 ° To Mounting Plane |

**PERFORMANCE VS WAVELENGTH**

|                         |            |
|-------------------------|------------|
| <b>Wavelength (nm)</b>  | <b>830</b> |
| Saturation RF Power (W) | 2.0        |
| Bragg Angle (mr)        | 19.8       |
| Beam Separation (mr)    | 39.6       |

**PERFORMANCE VS BEAM DIAMETER**

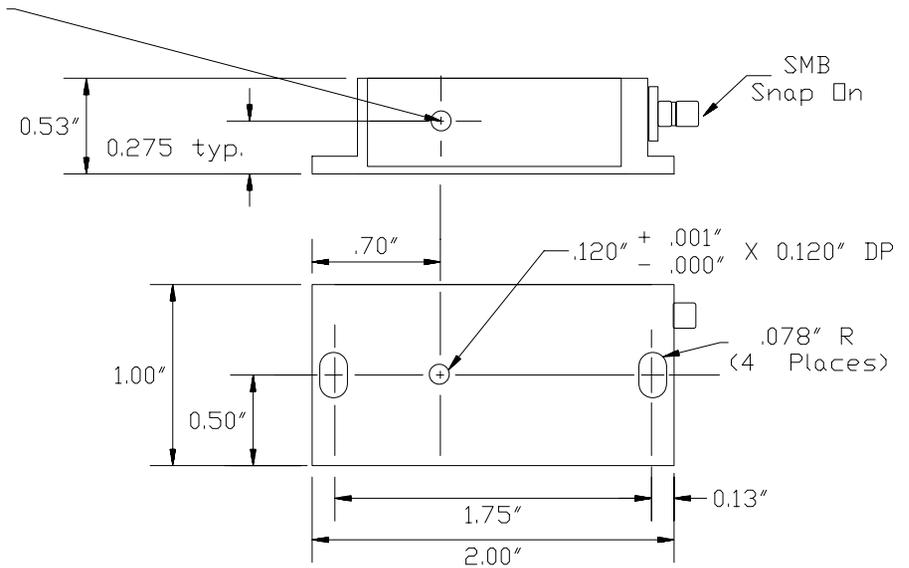
|                            |            |
|----------------------------|------------|
| <b>Beam Diameter (μm)</b>  | <b>150</b> |
| <i>at Wavelength (nm)</i>  | 830        |
| Diffraction Efficiency (%) | 70*        |
| Rise Time (nsec)           | 29         |
| Modulation Bandwidth       | 21.0       |
| Beam Ellipticity           | 10         |

**For Reference  
Only**

\*Active Aperture: Aperture over which performance specifications apply.

**Outline Drawing:**

**Package Style 2**



Notes:  
\*Diffraction Efficiency at 1 Watt RF Power.

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|   |     |                       |                                      |           |              |
|---|-----|-----------------------|--------------------------------------|-----------|--------------|
| TOLERANCES:<br>.XX ± .01<br>.XXX ± .005 | DR  | A. Campi<br>6/27/2002 | DESCRIPTION:<br><b>AOMO 3200-124</b> |           |              |
| MATERIAL:                               | CHK |                       |                                      |           |              |
| FINISH:                                 | APP |                       |                                      |           |              |
|   | APP |                       | PART NUMBER:<br>97-01544-01          | REV:<br>F | SHEET 1 OF 1 |