

# SPECIFICATIONS

|                          |                        |            |             |
|--------------------------|------------------------|------------|-------------|
| AO Medium                | Crystalline Quartz     |            |             |
| Acoustic Velocity        | 5.74 mm/μs             |            |             |
| Active Aperture*         | 1.5 mm 'L' X           | 1.5 mm 'H' |             |
| Center Frequency (Fc)    | 200 MHz                |            |             |
| RF Bandwidth             | 15 MHz @               | -10 dB     | Return Loss |
| Input Impedance          | 50 Ohms Nominal        |            |             |
| VSWR @ Fc                | 1.2:1 Max              |            |             |
| Wavelength               | 257-266 nm             |            |             |
| Insertion Loss           | <1 % Max               |            |             |
| Reflectivity per Surface | 0.3 % Max              |            |             |
| Anti-Reflection Coating  | MIL-C-48497            |            |             |
| Optical Power Density    |                        |            |             |
| Contrast Ratio           | 1000:1 Min             |            |             |
| Polarization             | 90 ° To Mounting Plane |            |             |

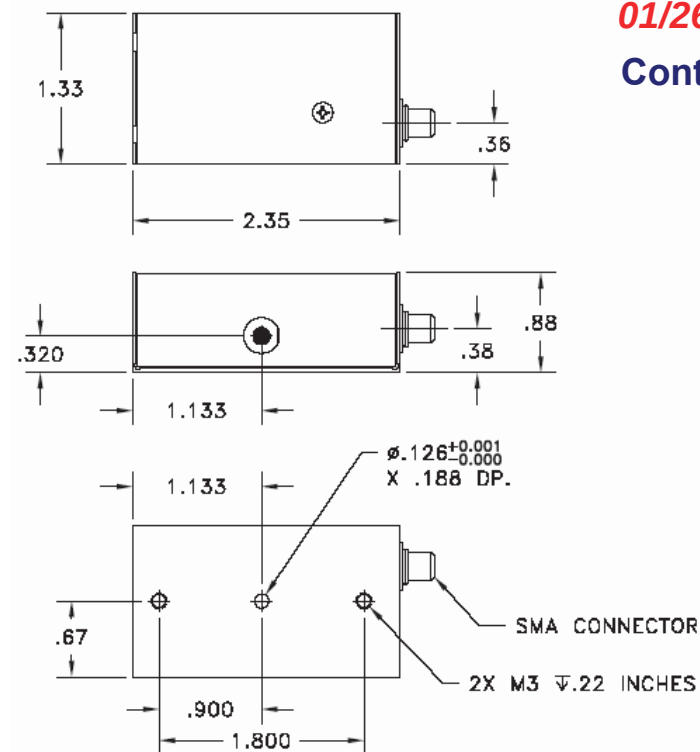
# PERFORMANCE VS WAVELENGTH

|                          |            |
|--------------------------|------------|
| <b>Wavelength (nm)</b>   | <b>266</b> |
| Operational RF Power (W) | <1.5W      |
| Bragg Angle (mr)         | 4.6        |
| Beam Separation (mr)     | 9.2        |

# PERFORMANCE VS BEAM DIAMETER

|                            |            |             |
|----------------------------|------------|-------------|
| <b>Beam Diameter (μm)</b>  | <b>500</b> | <b>1000</b> |
| at Wavelength (nm)         | 266        | 266         |
| Diffraction Efficiency (%) | >85%       | >90%        |
| Rise Time (nsec)           | 59         | 117         |

# Outline Drawing:



Notes:

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|                                         |     |                          |                                              |             |        |
|-----------------------------------------|-----|--------------------------|----------------------------------------------|-------------|--------|
| TOLERANCES:<br>.XX ± .01<br>.XXX ± .005 | DR  | Geri Scholz<br>1/17/2018 |                                              |             |        |
| MATERIAL:                               | CHK |                          |                                              |             |        |
| FINISH:                                 | APP |                          | <b>AOMO 3200-1999</b><br>Quartz, .257-.266um |             |        |
|                                         | APP |                          |                                              |             |        |
|                                         |     |                          | PART NUMBER:                                 | 97-03401-01 | REV: 1 |
|                                         |     |                          | SHEET 1 OF 1                                 |             |        |

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

Document

01/26/18

Control