

## SPECIFICATIONS

|                          |            |                    |                        |
|--------------------------|------------|--------------------|------------------------|
| AO Medium                |            |                    | TeO <sub>2</sub>       |
| Acoustic Velocity        |            |                    | 4.2 mm/μs              |
| Active Aperture*         | 2 mm 'L' X | 0.15 mm 'H'        |                        |
| Center Frequency (Fc)    |            |                    | 350 MHz                |
| RF Bandwidth             | 150 MHz @  | -10 dB Return Loss |                        |
| Input Impedance          |            |                    | 50 Ohms Nominal        |
| VSWR @ Fc                |            |                    | 1.3 :1 Max             |
| Wavelength               |            |                    | 473-685 nm             |
| Insertion Loss           |            |                    | 4 % Max                |
| Reflectivity per Surface |            |                    | 1 % Max                |
| Anti-Reflection Coating  |            |                    | MIL-C-48497            |
| Optical Power Density    | TDB        | N/A                |                        |
| Contrast Ratio           |            |                    | 1500 :1 Min            |
| Polarization             |            |                    | 90 ° To Mounting Plane |

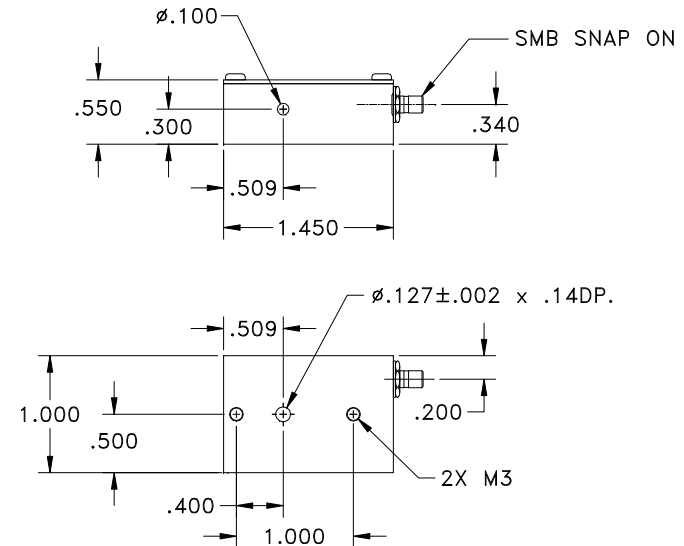
## PERFORMANCE VS WAVELENGTH

| Wavelength (nm)          | 473  | 532  | 632  | 660  | 685  |
|--------------------------|------|------|------|------|------|
| Operational RF Power (W) | .63  | .90  | 1.00 | 1.00 | 1.00 |
| Bragg Angle (mr)         | 19.7 | 22.2 | 26.3 | 27.5 | 28.5 |
| Beam Separation (mr)     | 39.4 | 44.4 | 52.6 | 55   | 57   |

## PERFORMANCE VS BEAM DIAMETER

| Beam Diameter (μm)         | 50  | 50  | 50  | 50  | 50  |
|----------------------------|-----|-----|-----|-----|-----|
| at Wavelength (nm)         | 473 | 532 | 632 | 660 | 685 |
| Diffraction Efficiency (%) | 80  | 80  | 70  | 65  | 60  |
| Rise Time (nsec)           | 9   | 9   | 9   | 9   | 9   |

## Outline Drawing:



**Document**  
**10/31/13**  
**Control**

### Notes:

Maximum RF Power is 1.00 Watts.  
Diffraction Efficiency measured at 1.00 Watt RF power and 633nm

THIS DOCUMENT IS THE PROPERTY OF GOOCH AND HOUSEGO. IT IS NOT TO BE REPRODUCED OR DISCLOSED IN WHOLE OR IN PART OTHER THAN BY EMPLOYEES OF GOOCH AND HOUSEGO AND ITS CONTRACTED REPRESENTATIVES AND DISTRIBUTORS. ANY EXCEPTION REQUIRES THE WRITTEN CONSENT OF AN AUTHORIZED REPRESENTATIVE OF GOOCH AND HOUSEGO.

|                                         |     |                          |                                       |           |              |
|-----------------------------------------|-----|--------------------------|---------------------------------------|-----------|--------------|
| TOLERANCES:<br>.XX ± .01<br>.XXX ± .005 | DR  | Geri Scholz<br>10/8/2013 | <br><b>AOMO 3350-197</b><br>473-685nm |           |              |
| MATERIAL:                               | CHK |                          |                                       |           |              |
| FINISH:                                 | APP |                          |                                       |           |              |
|                                         | APP |                          | PART NUMBER:<br>97-03032-01           | REV:<br>6 | SHEET 1 OF 1 |

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