## SPECIFICATIONS

| | | | | |
|---|---|---|---|---|
| AO Medium | | | | TeO2 |
| Acoustic Velocity | | | | 4.2 mm/µs |
| Active Aperture* | 2.5 | mm 'L' X | 1.5 | mm 'H' |
| Center Frequency (Fc) | | | | 100 MHz |
| RF Bandwidth | 25 MHz @ | -10 dB | Return Loss | |
| Input Impedance | | | | 50 Ohms Nominal |
| VSWR @ Fc | | | | 1.3 :1 Max |
| Wavelength | | | | 470-690 nm |
| Insertion Loss | | | | 4 % Max |
| Reflectivity per Surface | | | | 1 % Max |
| Anti-Reflection Coating | | | | MIL-C-48497 |
| Optical Power Density | | | | 250 W/mm$^2$ |
| Contrast Ratio | | | | 1000 :1 Min |
| Polarization | | | | 90° To Mounting Plane |

## PERFORMANCE VS WAVELENGTH

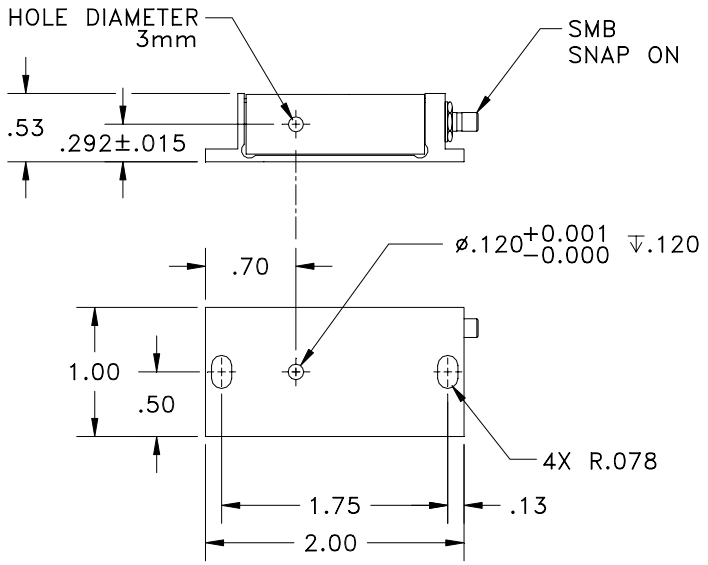
| **Wavelength (nm)** | **470** | **532** | **633** | **690** |
|---|---|---|---|---|
| Saturation RF Power (W) | 0.4 | 0.6 | 0.9 | 1.1 |
| Bragg Angle (mr) | 5.6 | 6.3 | 7.5 | 8.2 |
| Beam Separation (mr) | 11.2 | 12.6 | 15 | 16.4 |

## PERFORMANCE VS BEAM DIAMETER

| **Beam Diameter (µm)** | **1000** | **1000** | **1000** | **1000** |
|---|---|---|---|---|
| *at Wavelength (nm)* | 470 | 532 | 633 | 690 |
| Diffraction Efficiency (%) | 85 | 85 | 85 | 85 |
| Rise Time (nsec) | 159 | 159 | 159 | 159 |

*Active Aperture: Aperture over which performance specifications apply.

**Outline Drawing:**




# Document

***04/26/11***

**Control**

Notes:

新特光电
Sintec Optronics



| | | | | | |
|---|---|---|---|---|---|
| TOLERANCES: .XX ± .01 .XXX ± .005 | DR | Geri Scholz 4/19/2011 | | | |
| MATERIAL: | CHK | | DESCRIPTION: **AOMO 3100-125** 100 MHz Frequency Shifter | | |
| FINISH: | APP | | | | |
| | APP | | PART NUMBER: 97-03035-01 | REV: B | SHEET 1 OF 1 |