

## SPECIFICATIONS

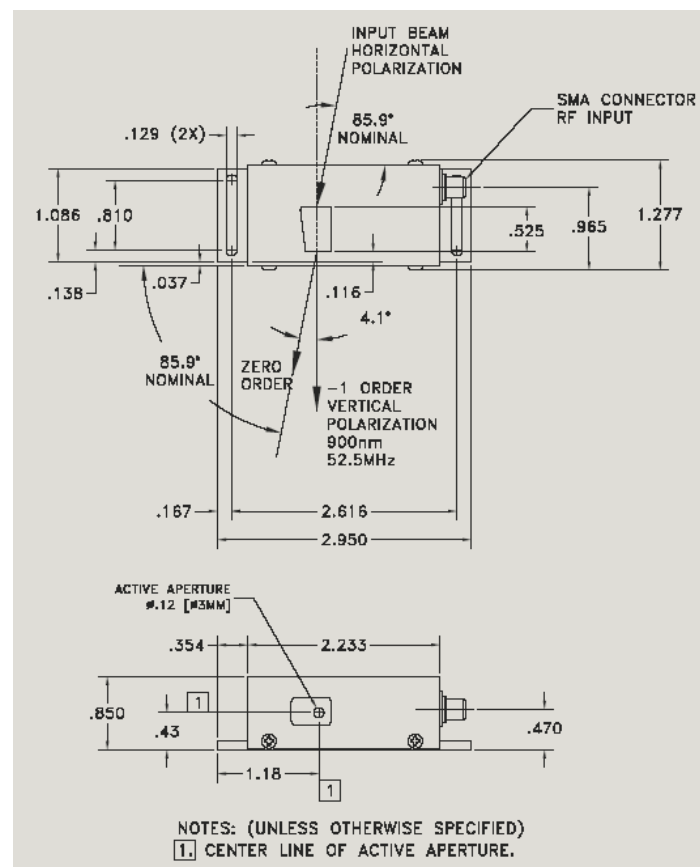
|                                      |                       |
|--------------------------------------|-----------------------|
| AO Medium                            | TeO <sub>2</sub>      |
| Acoustic Mode                        | Shear, Off Axis       |
| Acoustic Velocity                    | 0.663 mm/μs           |
| Wavelength                           | .68-1.30μm            |
| Input Polarization                   | 0° to Mounting Plane  |
| Output Polarization                  | 90° to Mounting Plane |
| Insertion Loss                       | <6%                   |
| Center Frequency (Fc)                | 55 MHz                |
| Transducer RF Bandwidth              | 40 MHz                |
| RF Power                             | <1 Watt               |
| Active Aperture                      | 3mm dia.              |
| Average Diffraction Efficiency       |                       |
| Flatness Across Bandwidth            |                       |
| Min Diffraction Efficiency           | 70%                   |
| Wavefront distortion(waves at 633nm) | <0.25                 |
| RMS at 633 nm                        | N/A                   |
| VSWR                                 | 2.2:1                 |
| Scan Angle                           | see notes             |
| Time Bandwidth                       | N/A                   |

Notes:

1. Input impedance is 50 Ohms.
2. Anti-Reflection Coating <1%/surface .63-1.06μm .
3. Crystal optical path <.525".
4. Input optical incidence angle approximately 4 degrees off input window normal.
5. Clear optical aperture 3.5mm minimum.

|                        |       |        |        |
|------------------------|-------|--------|--------|
| Wavelength             | .68   | .95    | 1.3    |
| Frequency range(MHz)   | 50-75 | 35-70  | 35-54  |
| Separation angle(mrad) | 51-77 | 50-100 | 69-106 |
| RF power (W)           | .4    | .8     | 1.2    |

## OUTLINE DRAWING



## Document

02/02/2024

## Control

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|                                         |     |                       |                                    |                  |              |
|-----------------------------------------|-----|-----------------------|------------------------------------|------------------|--------------|
| TOLERANCES:<br>.XX ± .01<br>.XXX ± .005 | DR  | A. Campi<br>5/18/2016 | Gooch & Housego                    |                  |              |
| MATERIAL:                               | CHK |                       | DESCRIPTION:<br><b>AODF 4055</b>   |                  |              |
| FINISH:                                 | APP |                       |                                    |                  |              |
|                                         | APP |                       | PART NUMBER:<br><b>97-03353-01</b> | REV:<br><b>3</b> | SHEET 1 OF 1 |