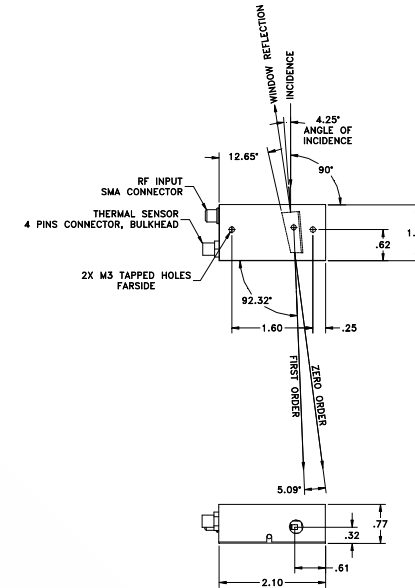


## SPECIFICATIONS

|                                            |                   |
|--------------------------------------------|-------------------|
| AO Medium                                  | TeO <sub>2</sub>  |
| Acoustic Velocity                          | .68 mm/μs         |
| Active Aperture*                           | 2.5 mm Dia        |
| RF Frequency Range                         | 25-50 MHz         |
| RF Bandpass (FWHM)                         | 280 KHz @ 1550 nm |
| Wavelength Range                           | 1100-2000 nm      |
| VSWR                                       | 2.4 :1 Max        |
| Input Impedance                            | 50 Ohms Nominal   |
| Insertion Loss                             | 3 % Max           |
| Temperature Sensitivity                    | 0.05 nm/C         |
| Diffacted Beam Collinearity, min deviation | 0.01 degrees      |
| Input Optical Polarization                 | Vertical          |
| Output Optical Polarization                | Horizontal        |
| Max RF Power                               | 2W                |

## Outline Drawing:

Package 97-02986-01



**Document**  
**12/09/13**  
**Control**

### Notes:

Simultaneous Diffraction, multi frequency capable.  
 Random Wavelength Access Time: < 1.5 usec (1 mm Beam Diameter)  
 Max RF Power with 8 Simultaneous Frequencies = 2W

### Special Testing

Diffraction Efficiency  
 (per wavelength input divergence < 2 mrad)

| Min | Units | Max |
|-----|-------|-----|
| 90  | %     |     |

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|                                        |     |                      |                                                                                                                                           |           |              |
|----------------------------------------|-----|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------|
| TOLERANCES:<br>XX ± .01<br>.XXX ± .005 | DR  | Tom NG<br>11/22/2013 | <br><b>AOTF PCAOM N.I.R 2</b><br>25-50MHz Vert. Pol. |           |              |
| MATERIAL:                              | CHK |                      |                                                                                                                                           |           |              |
| FINISH:                                | APP |                      |                                                                                                                                           |           |              |
|                                        | APP |                      | PART NUMBER:<br>97-02996-01                                                                                                               | REV:<br>C | SHEET 1 OF 1 |

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