

# 技术参数

|       |                                     |            |
|-------|-------------------------------------|------------|
| 声光介质  | TeO2                                |            |
| 声速    | .66 mm/μs                           |            |
| 通光孔径* | 3 mm 'L' X                          | 1.5 mm 'H' |
| 中心频率  | 65 MHz                              |            |
| 射频带宽  | 40 & 90.9 MHz @ -7.5 dB Return Loss |            |
| 输入阻抗  | 50 Ohms Nominal                     |            |
| 驻波比   | 2.5 :1 Max                          |            |
| 波长    | 1550 & 635 nm                       |            |
| 插入损耗  | 10 % Max                            |            |
| 单面反射率 | 5 % Max                             |            |
| AR 镀膜 | MIL-C-48497                         |            |
| 光功率密度 | 2 W/mm <sup>2</sup>                 |            |
| 消光比   | 1000 :1 Min                         |            |
| 偏振    | Perpendicular ° To Mounting Plane   |            |

# 波长性能参数

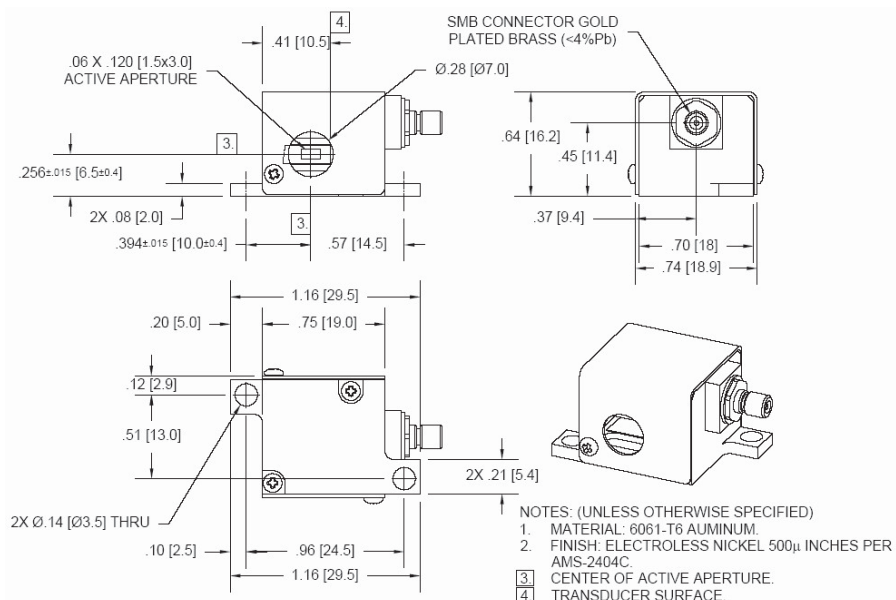
|            |      |      |
|------------|------|------|
| 波长(nm)     | 635  | 1550 |
| 工作射频功率 (W) | .1   | .7   |
| 布拉格角(mr)   | 157  | 157  |
| 光束分离角(mr)  | 86.5 | 91.6 |

# 光束直径性能参数

|             |      |      |
|-------------|------|------|
| 光束直径(μm)    | 1000 | 1000 |
| 波长 (nm)     | 635  | 1550 |
| 衍射效率(%)     | 65   | 70   |
| 上升时间 (nsec) | 950  | 950  |
| 工作频率(MHz)   | 90.9 | 40   |



# 外观尺寸图



# Document

02/11/22

Control

# Notes:

Diffacted beam collinearity for 635nm(90.9MHz) and 1550nm(40MHz) <3mrad.  
 Maximum RF 2W  
 1st order to zero order Beam Separation 91.6mrad@1.55um, 86.5mrad@635nm.  
 Storage temperature -20 to +60C, 90% RH non condensing  
 Operational temperature -10 to +50C, 90% RH non condensing

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  | T. NG<br>2/4/2022 | Gooch & Housego                                        |      |        |
| MATERIAL:                               | CHK |                   | DESCRIPTION:<br><b>AODF 4065</b><br>635-1550NM 1.5X5MM |      |        |
| FINISH:                                 | APP |                   | PART NUMBER:                                           | REV: | SHEET  |
|                                         | APP |                   | 97-03438-02                                            | 2    | 1 OF 1 |