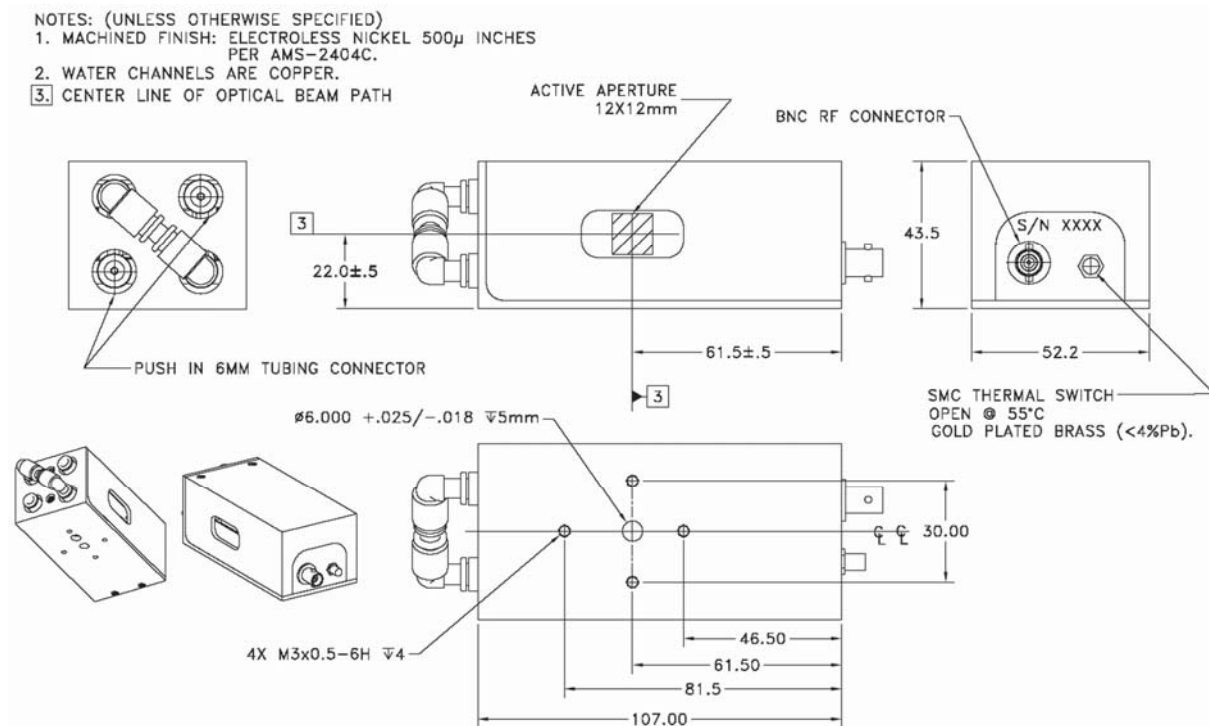


**Specification: 97-03486-01R1**

|                                |                                                                                                        |
|--------------------------------|--------------------------------------------------------------------------------------------------------|
| Device:                        | AO Modulator                                                                                           |
| Interaction material:          | Germanium                                                                                              |
| Wavelength:                    | 5.5 $\mu\text{m}$                                                                                      |
| Maximum optical power density: | > 15 W/mm <sup>2</sup>                                                                                 |
| AR coating reflectivity:       | < 0.2% per surface                                                                                     |
| Transmission:                  | > 96.5%                                                                                                |
| Frequency:                     | 40.68 MHz                                                                                              |
| Optical polarisation:          | Linear, horizontal (parallel to base)                                                                  |
| Active aperture:               | 11.6 mm                                                                                                |
| Acoustic mode:                 | Compressional                                                                                          |
| Separation angle:              | 40.7 mrad                                                                                              |
| Rise-time (10-90%):            | 120 ns/mm                                                                                              |
| Diffraction efficiency:        | $\geq 85\%$ , 90% typical                                                                              |
| Maximum RF power:              | 35 W nominal                                                                                           |
| Water cooling:                 | > 1 litre/minute at $\leq 25^\circ\text{C}$ ( $20^\circ\text{C}$ recommended for optimum beam quality) |



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As part of our policy of continuous product improvement we reserve the right to change specifications at any time