

# 1205-1118

## AO Frequency Shifter



0813

The model 1205-1118 is specifically designed for operation as an 80MHz acousto-optic frequency-shifter.

### FEATURES

- Small Size
- Low Drive Power
- Good Temperature Stability

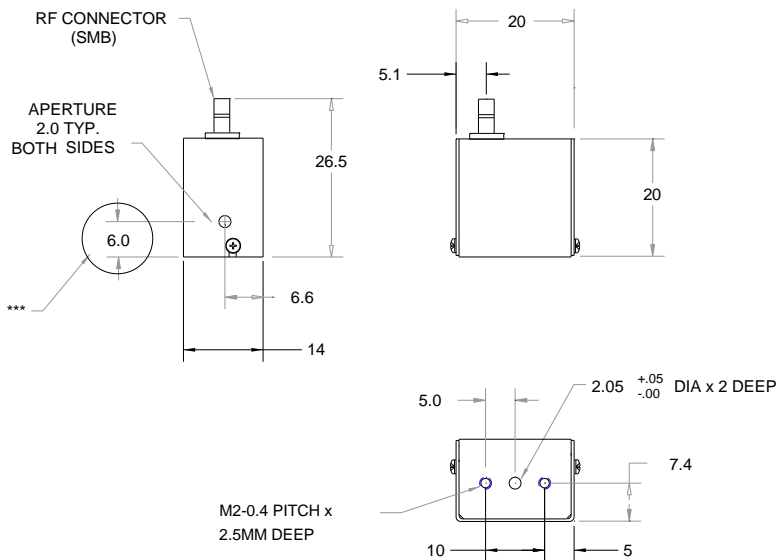
### DRIVERS

- Model 522C-L (Digital)
- Model 532C-L (Analog)

### SPECIFICATIONS

|                              |                                      |      |      |         |
|------------------------------|--------------------------------------|------|------|---------|
| Standard A/R Wavelengths:    | 532nm, 488-633nm                     |      |      |         |
|                              | 633nm, 633-830nm                     |      |      |         |
| Interaction Material:        | Lead Molybdate (PbMoO <sub>4</sub> ) |      |      |         |
| Active Aperture:             | 2mm                                  |      |      |         |
| Center Frequency:            | 80MHz                                |      |      |         |
| Input Impedance:             | 50 Ohms                              |      |      |         |
| VSWR:                        | <1.5:1 @ 80MHz                       |      |      |         |
| Wavelength (nm):             | 488                                  | 532  | 633  | 830*    |
| RF Drive Power, 1205C-2 (W): | ~0.5                                 | ~0.6 | ~1.0 | 1.0 max |
| Bragg angle (mrad):          | 5.4                                  | 5.9  | 7.0  | 9.1     |
| Beam Separation (mrad):      | 10.7                                 | 11.7 | 13.9 | 18.3    |
| Diffraction efficiency (%):  | >85                                  | >85  | >85  | >75     |
| Static Insertion Loss (%):   | <5                                   | <3   | <3   | <3      |

### OUTLINE DRAWING



ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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A/R coating, Vacuum Bonding