

M1062-FS40L-5.5

UV Acousto-Optic Modulator



0704

The M1062 is a pseudo Raman Nath modulator for applications requiring zero order modulation of UV lasers in the 330-360nm wavelength range. This model features a 5.5mm aperture, exhibits high efficiency and is water cooled for optimum stability.

SPECIFICATIONS

| | |
|-----------------------------|---------------------------------|
| Interaction Medium: | Fused Silica |
| Acoustic Velocity: | 5.960mm/ μ s |
| Operating Wavelength: | 325-364 nm (singly or combined) |
| Center Frequency, f_c : | 40 MHz |
| RF Bandwidth, Δf : | > 10 MHz |
| Input Impedance: | 50 Ω (Nominal) |
| Input VSWR: | <1.5:1 @ 40MHz |
| Active Aperture: | 5.5mm |
| Optical Insertion Loss: | <3% |
| Reflectivity: | <0.2%/Surface |
| Laser Polarization: | Vertical, Perpendicular to Base |
| Peak Optical Power Density: | 250MW/cm ² |
| Water cooling | <27degC at >0.38L/min |
| Outline Dimensions: | (See Reverse Side) |

PERFORMANCE vs. WAVELENGTH

| | |
|-----------------------------------|-------|
| Wavelength (nm): | 355 |
| Separation Angle at f_c (mrad): | 2.4 |
| Diffraction efficiency : | > 45% |
| at RF Drive Power (Watts): | 25W |

DRIVERS

Analog & Digital Modulation: RFA141

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

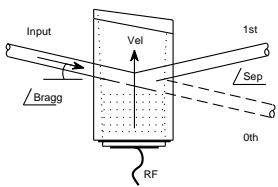
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Quality Assured.

In-house: Crystal Growth,
Optical Polishing,
A/R coating, Vacuum Bonding



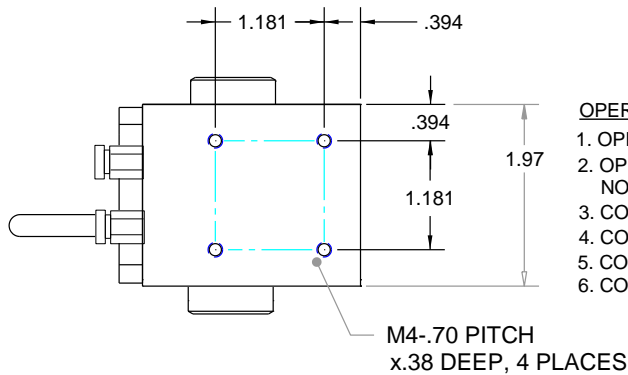
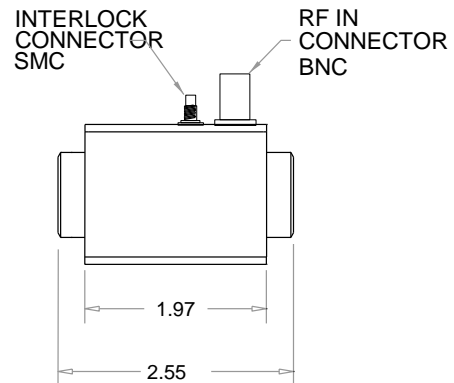
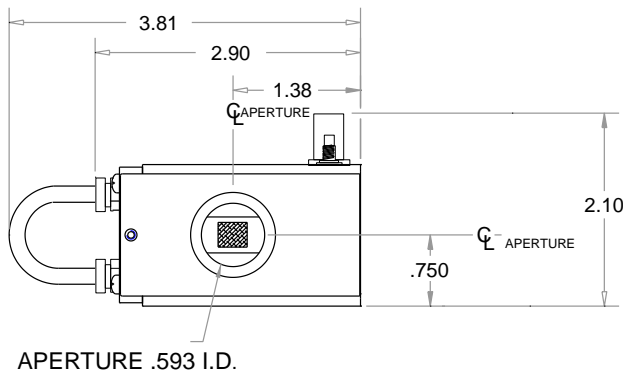
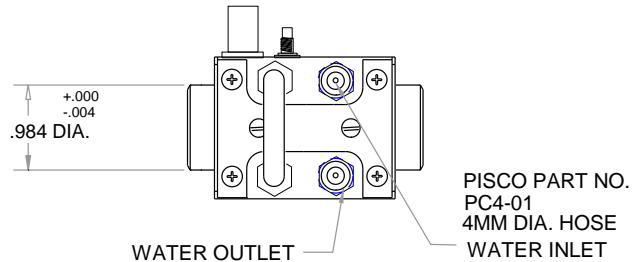
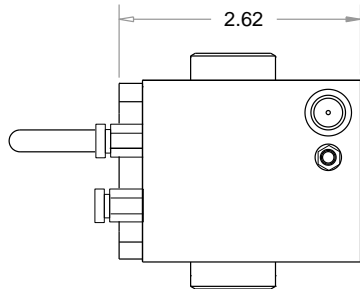
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OUTLINE DRAWING



OPERATIONAL CONDITIONS

1. OPERATING CIRCUMFERENCE TEMPERATURE: 5 - 40 degC
2. OPERATING CIRCUMFERENCE HUMIDITY: LESS THAN 80% RH NO CONDENSATION.
3. COOLING WATER: PURE WATER
4. COOLING WATER TEMPERATURE: 22 degC +/- 5 degC
5. COOLING WATER FLUX: MORE THAN 0.38L/min.
6. COOLING WATER PRESSURE: RATING 1kg/cm² MAX 5kg/cm²

RF connector: BNC
 O/temp interlock connector: SMC, signal open circuit at >45degC
 Water connectors: Push fit Nickel plated Brass for 4mm ID tube

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