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/μs
- **Operating Wavelength:** 325-364 nm (singly or combined)
- **Center Frequency, fc:** 40 MHz
- **RF Bandwidth, Δf:** > 10 MHz
- **Input Impedance:** 50Ω(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/cm²
- **Water cooling:** <27degC at >0.38L/min

**Outline Dimensions:** (See Reverse Side)

**PERFORMANCE vs. WAVELENGTH**

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

**DRIVERS**

Analog & Digital Modulation: RFA141
M1062-FS40L-5.5
UV Acousto-Optic Modulator

OUTLINE DRAWING

OPERATIONAL CONDITIONS
1. OPERATING CIRCUMFERENCE TEMPERATURE: 5 - 40 degC
2. OPERATING CIRCUMFERENCE HUMIDITY: LESS THAN 80% RH
   NO CONденSATION.
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