



M1062-FS40L-5.5

UV Acousto-Optic Modulator



0419

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:	<0.5%/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
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ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
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