

# M1115-FS80L-3

## Acousto-Optic Modulator



0816

### SPECIFICATIONS

Spectral Range:	Visible
Operating Wavelength:	0.532 $\mu$ m (others on request)
Interaction Medium:	Fused Silica
Acoustic Velocity:	5.96mm/ $\mu$ s
Centre Frequency (fc):	80MHz
RF Bandwidth ( $\Delta$ f):	20MHz
Input Impedance:	50 $\Omega$
Input VSWR:	< 1.5:1 at 80MHz
Optical Insertion Loss:	< 3%
Reflectivity:	< 0.5%/Surface
Laser Polarization:	Vertically Polarized
Optical Power (Maximum):	100 Watts
Clear Aperture:	6mmH x 9mmL
Active Aperture:	3mmH x 6mmL
Cooling:	Conduction (Heatsinking surface req'd)
Outline Dimensions:	(see over)

### TYPICAL PERFORMANCE at 0.532 $\mu$ m

Input beam diameter:	1.6mm	3mm
Optical access time:	0.17 $\mu$ s	0.33 $\mu$ s
Diffraction Efficiency:	> 85% *	> 85% *
Optical Power:	50 Watts	100 Watts
RF Power:	7 Watts nominal	
Bragg Angle:	3.5 mrad	
Separation Angle at fc:	7.1 mrad	

\* Single mode input

### DRIVERS

Amplitude Modulation:	522C-7 or 532C-7
Frequency Tuneable:	RFA910T-80

#### ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

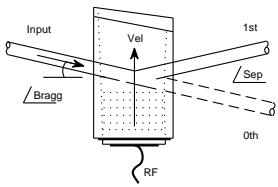
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Quality Assured.

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



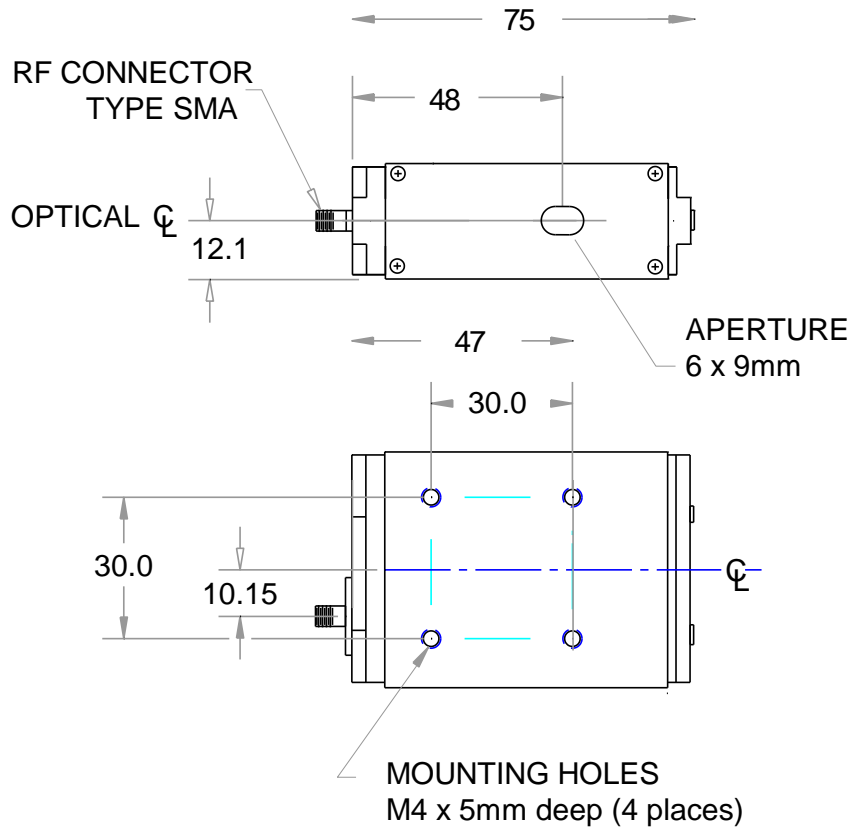
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### OUTLINE DRAWING



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