

MC1140-P110L-0p7

4 Channel AO Modulator

with INTERNAL BEAMSPLITTER OPTION



0821

The Model MC1140 was designed to produce four independently modulated output beams from a single circular input beam. This is accomplished by means of a beam splitter and may be incorporated in the MC1140. (Please contact Isomet for details).

Each spatially separated beam exiting from the beamsplitter enters the acoustic column of its respective channel in precise alignment. Equalized intensity of all output beams is accomplished by adjusting each channel's respective RF driver signal input.

SPECIFICATIONS

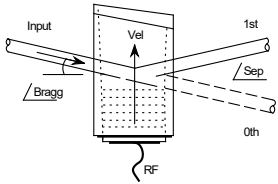
Interaction Material:	PbMoO ₄ (Longitudinal Mode)
Operating Wavelength:	488nm
Laser Polarization:	Linear/Vertical to Base preferred
Input Beam Diameter:	0.7mm (max)
Number of Channels:	Four
Output Beam Spacing:	1mm (Centre to Centre)
Diffraction Efficiency:	18% /Channel (Nominal, relative to input)
Adjacent channel Crosstalk:	> 16dB
Optical Rise time:	55nsec for 0.31mm dia. beam
Modulation Bandwidth:	6MHz for 0.31mm dia. beam
RF Drive Power:	< 0.4 Watts/Channel
Centre Frequency (Fc):	110 MHz
RF Bandwidth:	50 MHz
Input Impedance:	50 Ohms (Nominal)
VSWR:	< 2:1

DRIVER OPTIONS

4 off model 533F-L
1 off iMS4-L four channel Synthesizer plus 4off AG0-100T-1

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
ISOMET CORP, 10342 Battlevue Parkway, Manassas, VA 20109, USA.
Tel: (703) 321 8301 Fax: (703) 321 8546
E-mail: ISOMET@ISOMET.COM Web Page: WWW.ISOMET.COM

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



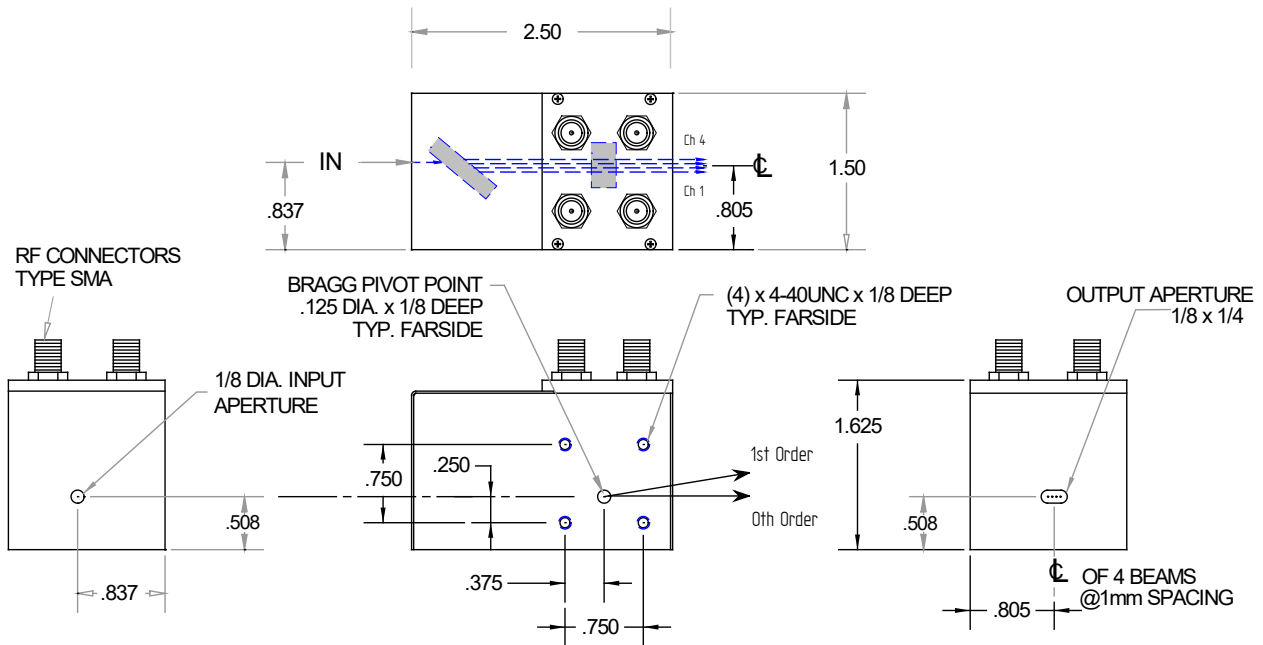
MC1140-P110L-0p7

4 Channel AO Modulator with INTERNAL BEAMSPLITTER OPTION



0821

OUTLINE DRAWING



All dimensions are in inches

Shown with beam splitter fitted.

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
 ISOMET CORP, 10342 Battlevue Parkway, Manassas, VA 20109, USA.
 Tel: (703) 321 8301 Fax: (703) 321 8546
 E-mail: ISOMET@ISOMET.COM Web Page: WWW.ISOMET.COM

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