



M8080C

Multichannel AO Modulator



902

The Model M8080 was designed to produce eight independently modulated output beams from a row of eight equally spaced input beams. These inputs can be generated from a single laser output by means of an external beam splitter NOT supplied with the M8080.

Each spatially separated input beam must be in precise alignment with the respective acoustic column. The input beam spacing must be equal to the electrode spacing of the modulator. Equalized intensity of all output beams is accomplished by manually adjusting each channel's respective RF driver signal input.

SPECIFICATIONS

Interaction Material:	PbMoO ₄
Operating Wavelength:	488-633nm
Laser Polarization:	Linear/Vertical to Base preferred
Input Beam Diameter:	0.5mm (max) 0.31mm (Typical)
Number of Channels:	Eight
Output Beam Spacing:	1mm (Center to Center)
Diffraction Efficiency:	80% /Channel (Nominal)
Adjacent channel Crosstalk:	> 16dB
Optical Rise time:	55nsec for 0.31mm dia. beam
Modulation Bandwidth:	6MHz for 0.31mm dia. beam
RF Drive Power:	<0.5 Watts/Channel
Center Frequency (Fc):	80 MHz (Nominal)
Input Impedance:	50 Ohms (Nominal)
VSWR:	<2:1

OUTLINE DRAWING

Under review

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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Quality Assured.

In-house: Crystal Growth,

Optical Polishing,

A/R coating, Vacuum Bonding