

D1155M-T75S-H

Acousto-Optic Modulator

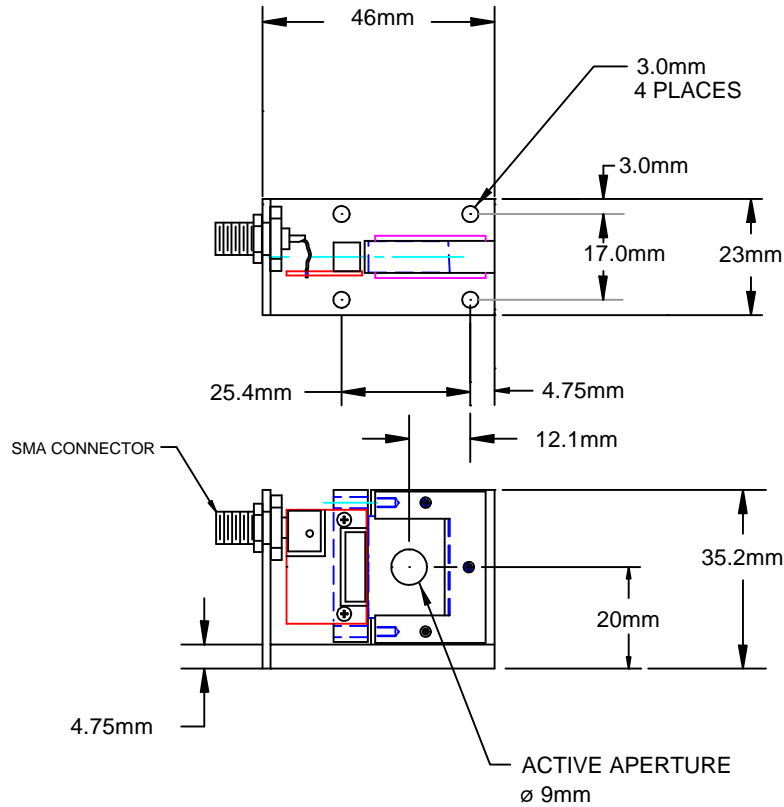
(Issue 2, Preliminary)



0308

APPLICATIONS

Low wavefront distortion AO deflector for use at 405nm



OUTLINE, D1155-T75S-9

RF DRIVE ELECTRONICS

VCO based driver 630C-80
Or
iDDS-1-SE synthesizer plus amplifier 502C

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

ISOMET CORP, 5263 Port Royal Rd, Springfield, VA 22151, USA.

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



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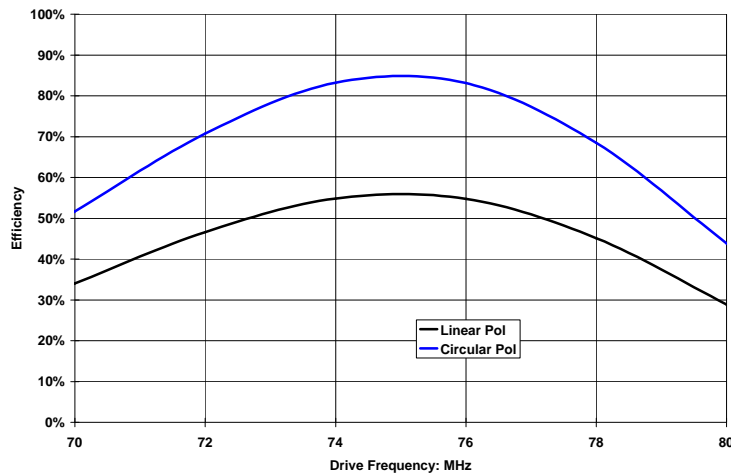
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SPECIFICATIONS

Estimated scan response at 405nm for linear and circularly polarized input light



Active Aperture (H): 9mm
 Access Time (t): 14.5 μ s
 Interaction Material: TeO₂ (Slow Shear)
 Acoustic Velocity: 0.62mm/ μ s

Centre Frequency (Fc): 75MHz
 RF bandwidth: 10MHz
 Wavelength: 405nm

Input Bragg Angle: 34.5mrad (nominal)
 Output Separation angle at Fc: 49mrad
 Minimum Scan angle: +/- 2mrad (+/- 3.05MHz at 405nm)

Wavefront Distortion: < λ /20, theoretical
 (for maximum temperature differential of ~ 10°C)

RF Input Impedance: 50 Ω Nominal
 RF Drive Power: 500mW

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