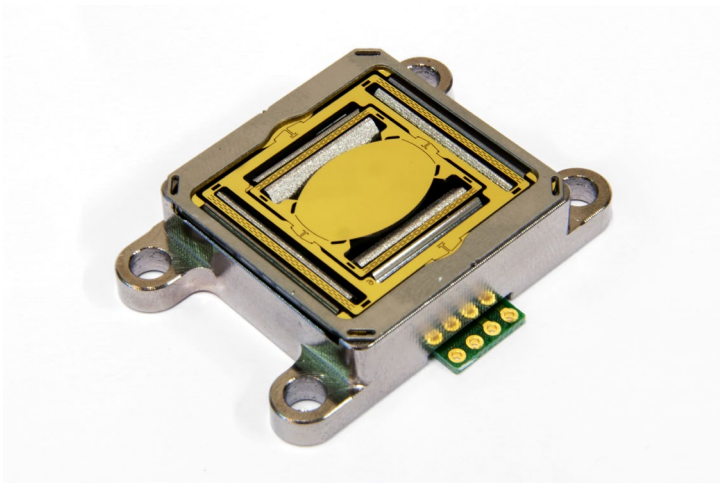

FINE POINTING DUAL AXES MAGNETIC MIRRORS

OVERVIEW

The sercalo dual axes magnetic mirrors are used for optical beam steering and scanning. The 2-D mirror has a large reflective surface of 16x11mm.

Using magnetic actuation, the deflection angle is set linearly with the driving current. The mirror is designed for DC operation as well as scanning.

As an option, the device could include an internal optical feedback sensor for closed loop actuation.

FEATURES

- 2 actuation Axes
- ±1.5°
- Linear control
- Fine Pointing

APPLICATIONS

- 2D Static and dynamic Optical Beam Steering
- 2D Optical Scanner Device

ORDERING INFORMATION

MM-160110-2-15-AU	*Gold surface finish*
MM-160110-2-15-AL	*Aluminum surface finish*

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TECHNICAL SPECIFICATIONS

	Unit	Min	Typ	Max
Max actuation Current	mA			60
Max actuation Power	W			1
Surface finish	-		Gold or Aluminium	
Reflectivity (800-2000 nm)	%	98		
Mirror Size	mm^2		16.0 x 11.0	
Wavefront Error (1550nm)	nm			100
Tilt Angle DC (mechanical)	deg			± 1.5°
Resonance Frequency X	Hz	350	380	
Resonance Frequency Y	Hz	200	220	
Angle of Incidence	deg			45
Operating Temperature	°C	-5		85
Storage Temperature	°C	-40		85
Mass	g			80

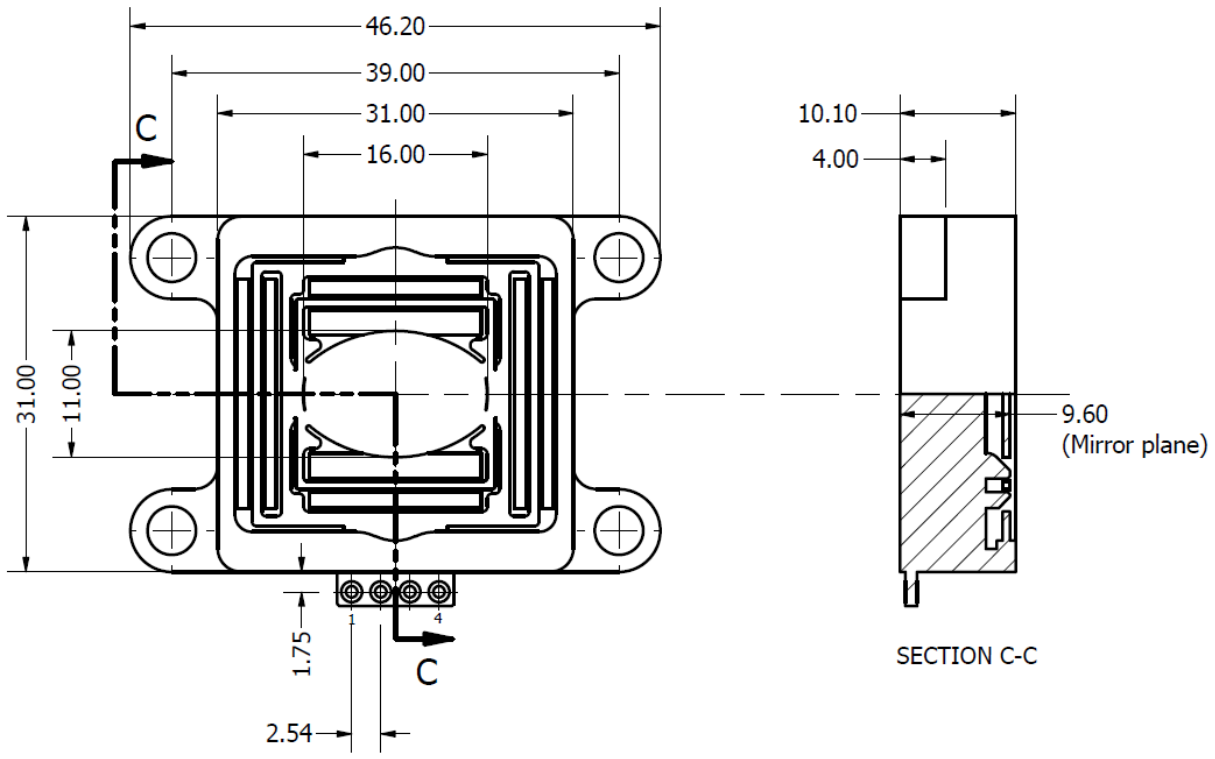

Figure 1: *Mechanical layout for MM162100-2-15 Deflection Unit. (Units = mm)*