

DUAL AXES MAGNETIC MIRRORS

OVERVIEW

The **recalo** magnetic deflection units are used for optical beam steering and scanning. The 2-D mirror has a reflective surface of 2.5 x 3.6 mm.

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

FEATURES

- 2 actuation Axes
- ±4° (up to 5°)
- Linear control

APPLICATIONS

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

ORDERING INFORMATION

MM-2536-2-AU 2.5x3.6mm Gold surface finish

MM-2536-2-AL 2.5x3.6mm Aluminum surface finish

CONTACT

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	Unit	Min	Тур	Max
Max actuation Current	mΑ			200
Max actuation Power	W			1
Surface finish	-	Gold or Aluminium		
Reflectivity (800-2000 nm)	%	95		
Mirror Size (A x B)	mm^2		2.5 x 3.6	
Mirror Flatness (ROC)	m	10		
Tilt Angle DC (mechanical)	deg	± 4°		(up to 5°)
Resonance Frequency X	Hz	350	390	
Resonance Frequency Y	Hz	200	240	
Angle of Incidence	deg			45
Operating Temperature	°C	-5		85
Storage Temperature	°C	-40		85

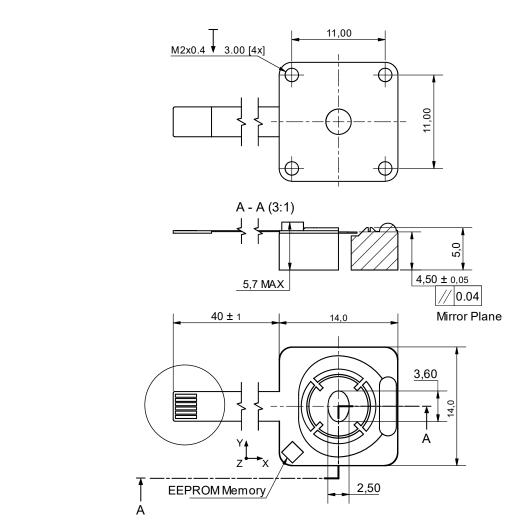


Figure 1: Mechanical layout for MM2536-2 Deflection Unit (units = mm)



FINE STEERING MIRROR

OVERVIEW

The **recalo** dual axes magnetic fine steering mirrors are used for optical beam steering and scanning. The 2D 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

MM160110-2-15-AU Gold surface finish

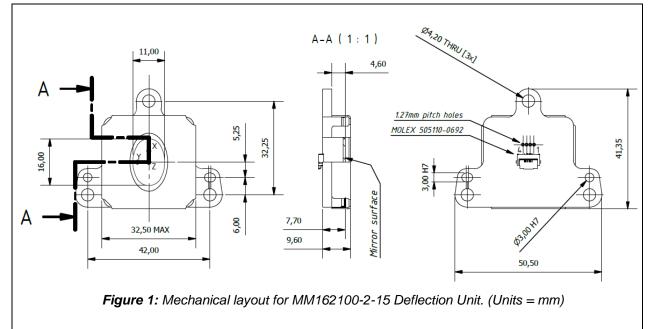
MM160110-2-15-AL Aluminum surface finish

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TECHNICAL SPECIFICATIONS							
	Unit	Min	Тур	Max			
Max actuation Current	mA			60			
Max actuation Power	W			0.5			
Surface finish	-	Gold or Aluminium					
Reflectivity (800-2000 nm)	%	98					
Mirror Size	${\sf mm}^2$		16.0 x 11.0				
Wavefront Error (1550nm)	nm			up to 50			
Tilt Angle DC (mechanical)	deg			± 1.5°			
Resonance Frequency X	Hz	290	315				
Resonance Frequency Y	Hz	167	175				
Angle of Incidence	deg			45			
Operating Temperature	°C	-5		85			
Storage Temperature	°C	-40		85			
Mass	g			50			



お問い合わせ先



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