

1 Axis Magnetic DC MIRROR

OVERVIEW

The **recolo** magnetic mirrors are used for optical beam steering and scanning. The mirrors provide a large reflective surface up to a diameter of 14.2 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 up to 250 Hz.

FEATURES

- Large mirror
- ±5° static
- Linear control
- Up to 250 Hz

APPLICATIONS

- Static and dynamic Optical Beam Steering
- Optical Scanner Device

ORDERING INFORMATION

MM142-1-AU Ø14.2mm; Gold surface finish

MM142-1-AL Ø14.2mm; Aluminum surface finish

MM142100-1-AU Ø14.2x10.0mm; Gold surface finish

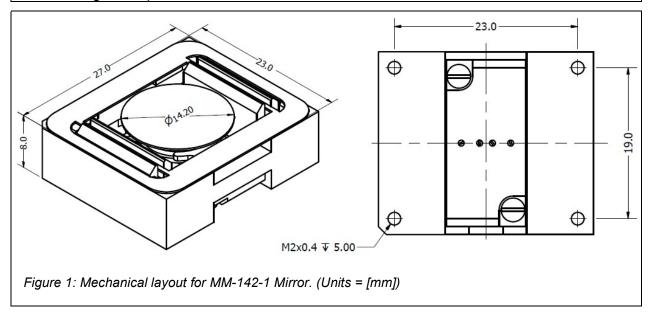
MM142100-1-AL Ø14.2x10.0mm; Aluminum surface finish

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TECHNICAL SPECIFICATIONS MM142-1							
	Unit	Min	Тур	Max			
Max actuation Current	mΑ			200			
Max actuation Power	mW			300			
Coil Resistance	Ohm		6.3				
Surface finish	-		AU/AL				
Reflectivity (800-2000 nm)	%	95					
Mirror Size (round)	mm		14.2				
Mirror Flatness (ROC)	m	10					
Tilt Angle DC (mechanical)	0	± 4		± 5			
Resonance Frequency	Hz	160	190				
Field of View	0	90					
Operating Temperature	°C	-5		60			
Storage Temperature	°C	-40		80			



TECHNICAL SPECIFICATIONS MM142100-1							
	Unit	Min	Тур	Max			
Max actuation Current	mA			200			
Max actuation Power	mW			300			
Coil Resistance	Ohm		5.8				
Surface finish	-		AU/AL				
Reflectivity (800-2000 nm)	%	95					
Mirror Size (elliptical)	mm		14.2x10.0				
Mirror Flatness (ROC)	m	10					
Tilt Angle DC (mechanical)	0	± 4		± 5			
Resonance Frequency	Hz	200	240				
Field of View	0	90					
Operating Temperature	°C	-5		60			
Storage Temperature	°C	-40		80			

