

MEMS STEERING MIRROR

OVERVIEW

The **recalo** MEMS 3D mirrors are used for precise optical beam steering. To avoid an optical feed back loop, the micromirror is designed to minimize effects such as drift, hysteresis and temperature dependent performance. The angle is set using electrostatic actuation.

FEATURES

- Low drift
- 2 independent axis
- Continuous tilting
- Single mirror
- 1 mm diameter mirror
- High fill factor

APPLICATIONS

- Optical Beam Steering
- Reconfigurable Add-Drop Multiplexer
- Vibration control in free space optics
- Optical Processor

ORDERING INFORMATION

TM-10 Ø1.0 mm mirror

Ordering Information:



800 Village Walk #316 Guilford, CT 06437 Ph: 203-401-8093

Email orders to: sales@xsoptix.com
Fax orders to: 800-878-7282

Contact:

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TYPICAL SPECIFICATIONS (All designs)

	Unit	Min	Тур	Max
Max. Actuation Voltage	V		60	70
Surface Finish	-		Al or Au	
Reflectivity (900-2000 nm)	%		95	
Mirror Size – X	μm	1000		
Mirror Size – Y	μm	1000		
Mirror Radius of Curvature	m	1.0		
Tilt Angle – X (Mechanical)				
@ 60 V	0		±4.5	
Tilt Angle - Y (Mechanical)				
@ 60 V	0		±4.5	
Resonant Frequency - X	Hz		640	
Resonant Frequency - Y	Hz		290	
Package		TO46		
ESD	Unprotected = VERY SENSITIVE			
	Overvoltage above 70 V can permanently			
	damage the device.			



