

MEMS Piston Mirror

1. Key Specifications

- Mirror size: Ø0.6; Ø1.2; Ø1.8
- Max. Mirror piston movement: 0.3 mm
- Electrostatic actuation

2. Specifications

Parameters	Conditions	Unit	Specifications		
			Min	Typical	Max
Mirror Diameter	Circular and rectangular	mm		Ø0.6; Ø1.2; Ø1.8	
Mirror Flatness	ROC	m	0.8	1	5
Reflectivity (Al or Au reflector)	1260-1660 nm	%	96		99
Power Handling		mW			500
Damage Voltage		V	22		200
Actuation Voltage	Voltage	V	5		180
Max Mirror Displacement		mm	0.002		0.3
Resonant Frequency		Hz	300		3,000
Response Time	From neutral to max displacement using a step function input	ms			1
Temperature Stability	Over -5 to 75 °C	deg.			0.001
Durability	Hermetically sealed	Cycle		10 ⁹	
Operating Temperature		°C	-5		75
Storage Temperature Range	5% humidity	°C	-40		85
Baking Temperature	Less than 3h	°C			110
Wire Bond Temperature	Less than 5min	°C			150