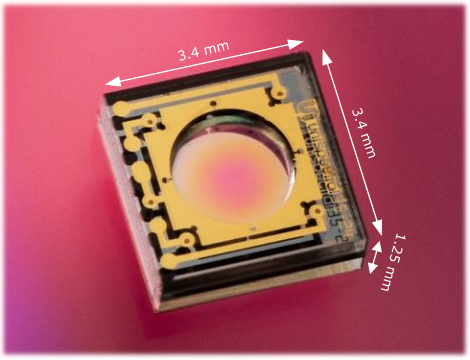

Description

Tuneable Fabry-Perot filter MEMS based.

Central transmission wavelength seleced by modifying mirror position (i.e. optical gap).

Applications

- NIR Spectroscopy
- Compact spectral imaging
- Compact tunable spectral filter

Features

- 11.56 mm^2 footprint
- Wafer level packed, hermetic sealed
- 5 pads electronic interface – 4 actuators + ground
- 3 DOF control - Vertical + 2 tilt angles

UNS23000 Specifications

		Units	Values
Optical			
Clear aperture		mm	1.3
Spectral			
Spectral range		nm	710-940
FWHM (per CWL range)	725 – 850 nm	nm	35 ± 10
	850 – 900 nm	nm	35 ± 10
	> 900 nm	nm	35 ± 10
Average peak intensity		%	39 ± 5
Stop-band intensity		%	< 3%
CWL repeatability		nm	±3
Angular dependency		nm/deg	1.1 ± 0.4
Mechanical			
Switching time		msec	<10 ms

* Assuming external 710-940nm band-pass filter, normal incidence, T=25°

Electrical		
Peak power consumption	mW	0.8 ± 0.2
Input DC Voltage	V	0..60
Working Conditions		
Working temperature range	°C	0-70
Humidity	%	90
Packaging		
Size	mm	3.4 x 3.4 x 1.25
Weight	mg	29