



Description

Tunable Fabry-Perot MEMS based filter.

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

Applications

- NIR Spectroscopy
- Compact spectral imaging
- Compact tunable spectral camera

Features

- 11.56 mm² footprint
- Wafer level packed, hermetic sealed
- 5 pads electronic interface – 4 actuators + ground
- 3 DOF control - Vertical + 2 tilt angles

ColorIR™ NIR Tunable Filter

Product cat. No. UNS23010

Specifications:

Specification	Units	Values
Optical		
Clear aperture	mm	1.3
Spectral		
Spectral range	nm	690-935nm
FWHM	nm	40 ± 10
Average peak transmission	%	45 ± 5
Stop-band transmission	%	< 3%
CWL repeatability	nm	±5
Angular dependency	nm/deg	1.1 ± 0.4
Mechanical		
Switching time	msec	Min.>5 ms max<15 ms
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