



# MEMS-FPI spectrum sensor: C13272

## ■ Outline

MEMS-FPI NIR spectrum sensor C13272 is one package ultra-compact sensor that integrates InGaAs PIN PD with a MEMS-FPI\* tunable filter applied MEMS technology. (FPI\*: Fabry-perot Interferometer)

Spectrum wavelength range is 1550 nm to 1850 nm. This sensor is suitable, such as environmental measurements, food management to smoothly and simply perform in situ spectrum analysis.

## ■ Feature

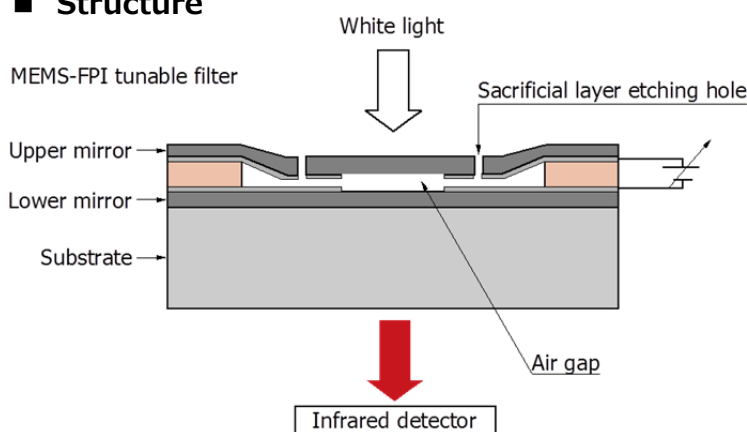
- Includes MEMS-FPI tunable filter
- Uses single-element InGaAs PIN photodiode
- High optical throughput because of large MEMS-FPI aperture
- Small, highly reliable, hermetically sealed package

## ■ Characteristics

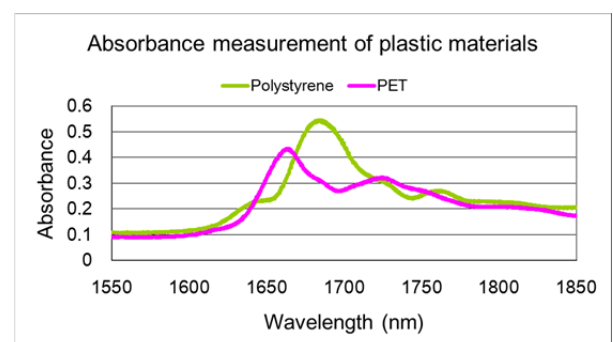
Item	C13272	Unit
Tunable spectral range	1550 ~ 1850	nm
Spectral resolution (FWHM)	Max.20	nm
FPI aperture size	φ750	μm
Detector	InGaAs PIN PD	–
Active area of detector	φ100	μm
Package window aperture size	φ1.5	mm
Package	TO-5 (8pins)	–



## ■ Structure



## ■ Absorbance measurement example of plastic materials



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