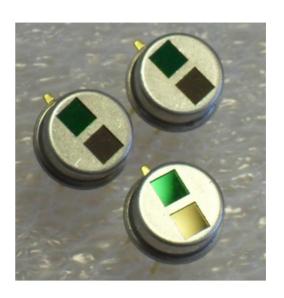


DUAL CHANNEL PYROELECTRIC DETECTOR

Introduction

The Pyreos thin film pyroelectric gas detectors offer exceptionally responsivity, low microphonics and class leading thermal and electrical stability. This high performance detector achieves a signal to noise of ~10,000 and offers a fast, stable response over a wide operating frequency range. The sensor elements are built into a low noise circuit that has an internal cmos op amp, with a 10 G Ohm feedback resistor outputting an industry standard voltage mode signal. With a standard pin out it makes it a simple replacement for leading voltage mode devices.

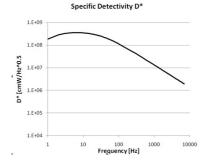


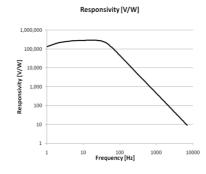
Sensor Information

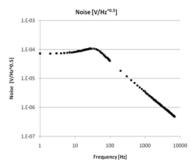
Filter aperture	2.6 mm square				
Element size	1000 μm x 1000 μm				
Op amp with 10G Ohm feedback resistor					
Time Constant	~12 ms				
Responsivity ¹	150,000 V/W				
D* 1	3.5 x 10 ⁸ cm√Hz/ W				
Noise 1	70 uV√ <i>Hz</i>				
	10 u v v 112				

Max. Voltage	8.0V			
Min. Voltage	2.7V			
Output Voltage Normalised around mid rail				
Microphonics	S _{vib} ~2 μV/ g at 10Hz			
Package	TO39			
1 donage	1000			
Filter	8 standard types & custom			
Filter				

Frequency Characteristics



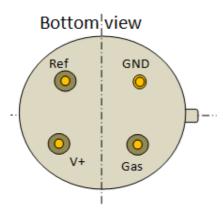


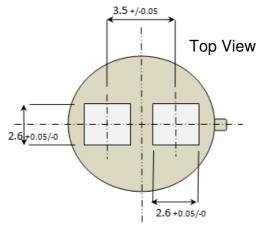


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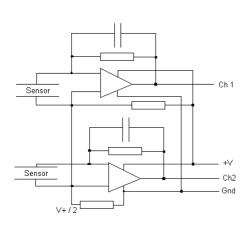
MAIL:szss20@163.com SUNSTAR传感与控制

Package Information

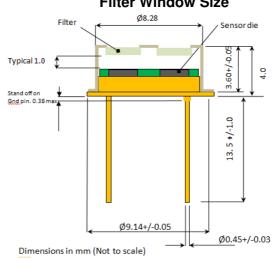




Pin compatible with leading brands



Filter Window Size



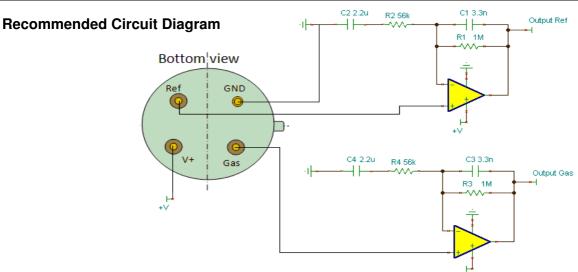
Voltage mode output

Package Dimensions

Filters Available

Pyreos has a range of standard filters for CO₂ CO hydrocarbon methane NOx SOx fire/flame and we can also rapidly process a customized filter for you. Typical performance values measured are shown.

Filter	CO ₂	CO	CH₄	H-C	CO ₂ Narrow	CO Narrow	Ref.
CWL μm (HBP nm)	4.26(180)	4.64(180)	3.30(160)	3.375(190)	4.27(90)	4.64(90)	3.91(90)
Responsivity V/W (500K,10Hz)	7700	8200	3700	4200	3100	5300	5100
Noise 10Hz uV√ <i>Hz</i>	70	70	70	70	70	70	70



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