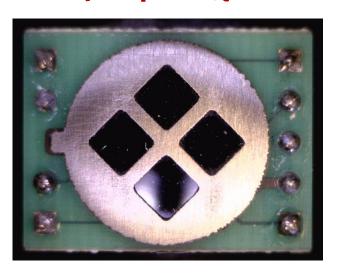


NEW LOW PROFILE FORMAT QUAD CHANNEL GAS DETECTOR

Introduction

Pyreos introduces a revolutionary change in format with a low profile four channel pyroelectric gas detector enclosed on a pcb substrate. The low profile package provides new possibilities in product design. When coupled with the high performance of the four large sensor pixels and filter apertures, this offers an attractive new approach to miniaturised, high performance multi-gas sensing. The new product maintains Pyreos' uniquely high standards of performance, stability, and EMC protection. Custom surface mount compatible versions of this product can be designed for each customer.

New product

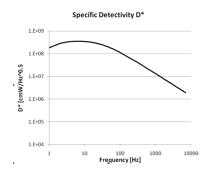


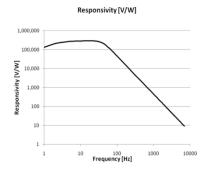
Sensor Information (Nominal)

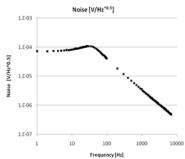
Filter aperture	3 mm square
Element size	1650 μm x 1650 μm
Op amp with	10G Ohm feedback resistor
Time Constant	~12 ms
Responsivity ¹	130,000 V/W
D* 1	$3.5 \times 10^8 \text{cm} \sqrt{\text{Hz}/W}$
	S.O X TO CITI VITE/ VV
Noise (mean) ¹	100 μV√ <i>Hz</i>

Max. Voltage	5.5V	
Min. Voltage	2.4V	
Output Voltage Normalised around mid rail		
Microphonics	S _{vib} ~2 μV/ g at 10Hz	
Packages	PTH or Surface mount	
Filter Options	Customer combinations	
Operating Temperature -20 to +70 C		
Storage Temperature -20 to +110 C		

Frequency Characteristics



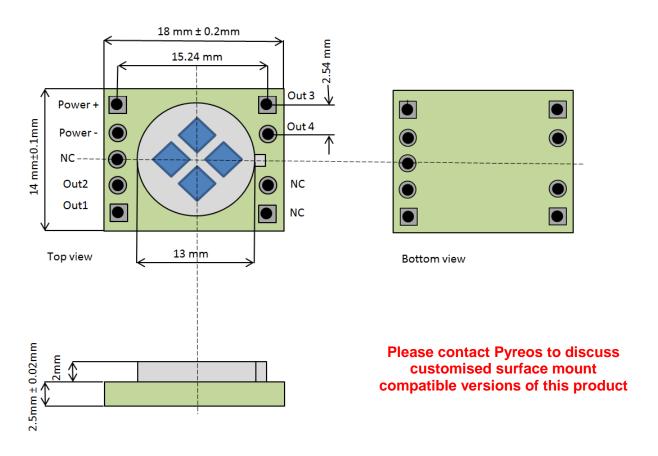




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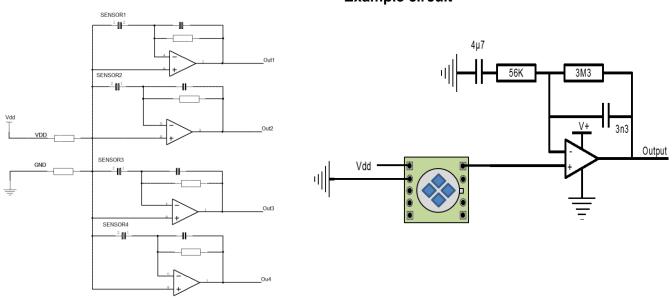


Package Information/ PTH option



Schematic

Example circuit



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