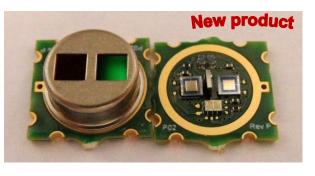
PY-ITV-DUAL-SM

PYRE

SURFACE MOUNT DUAL CHANNEL GAS DETECTOR

Introduction

Pyreos introduces a revolutionary change in format with surface mount pyroelectric gas detectors. The surface mount package offers new possibilities in product design, as well as compatibility with fully automated surface mount manufacturing. Offering exceptional high responsivity, wide operating frequency range, as well as unsurpassed thermal and electrical stability, the surface mount device maintains Pyreos'



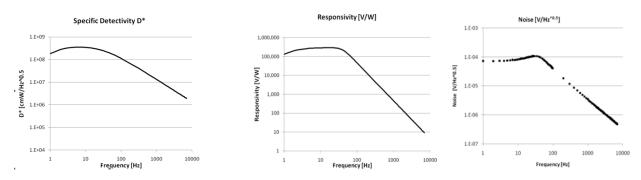
uniquely high standards of performance and also delivers higher levels of EMC protection. An additional feature is that the sensor elements have integrated temperature sensors on each channel to provide the most accurate possible temperature reference and further simplify product development.

Sensor Information (Nominal)

	Filter aperture	2.60 mm square	Max. Voltage	8	
	Element size	1000 µm x 1000 µm	Min. Voltage	2	
	Op amp with 10G Ohm feedback resistor		Ŭ	Output Voltage Nor	
	(100M Ohm version is also available)		Microphonics	S	
	Time Constant	~12 ms	Package	S	
	Responsivity ¹	140,000 V/W	Filter	8	
	D* ¹	3.5 x 10 ⁸ cm√Hz/ W		CI	
	Noise (mean) ¹	60 μV√ <i>Hz</i>	Operating Te	mp	
	¹ 10Hz normalized without window & optics		Storage Ten	าทค	
		ca maioat milaon a opaco	eterage ren		

Max. Voltage	8.0V		
Min. Voltage	2.7V		
Output Voltage I	Output Voltage Normalised around mid rail		
Microphonics	S $_{vib}$ ~2 μ V/ g at 10Hz		
Package	Surface mount		
Filter	8 standard types &		
	custom		
Operating Temperature -20 to +70 C			
Storage Temperature -40 to +110 C			

Frequency Characteristics

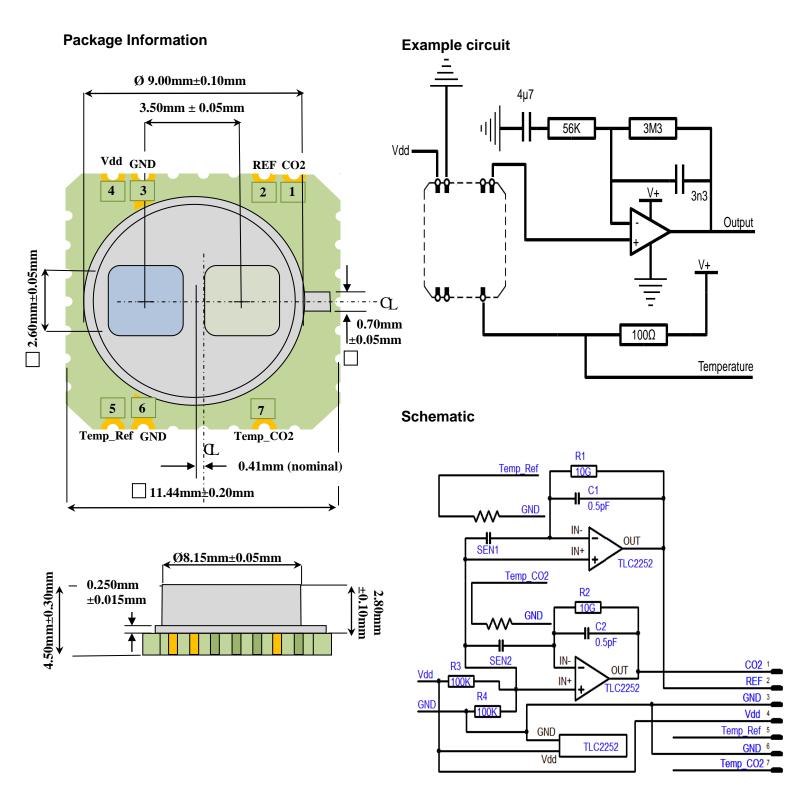


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