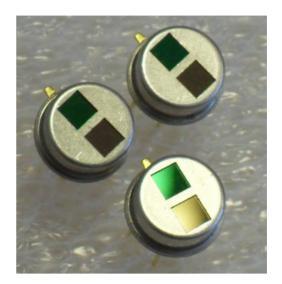
SUNSTAR传感与控制 http://www.sensor-ic.com/ TEL:0755-83376549 FAX:0755-83376182E-MAIL: szss20@163.com PY-ITV-DuAL-T039(3+1)



Introduction

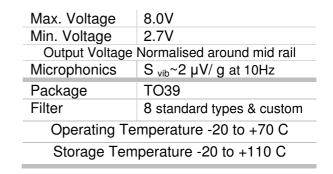
The Pyreos thin film pyroelectric gas detectors offer exceptionally high responsivity, low microphonics and class leading thermal and electrical stability. This high performance detector achieves a signal to noise of ~10,000 and offers a fast, stable response over a wide operating frequency range. The 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.

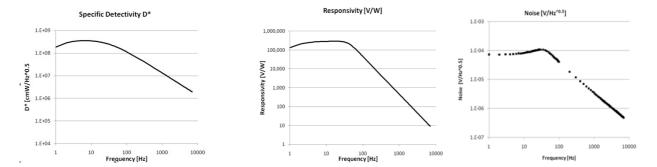


Sensor Information

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				
Responsivity ¹ D* ¹	150,000 V/W <i>3.5 x 10[°] cm√Hz/ W</i>				

Frequen	cv Ch	aracte	ristics
ricqueil	cy c 1	anacic	13103



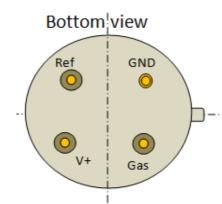


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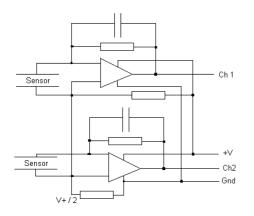
SUNSTAR自动化 http://www.sensor-ic.com/ TEL: 0755-83376489 FAX:0755-83376182 E-MAIL: szss20@163.com

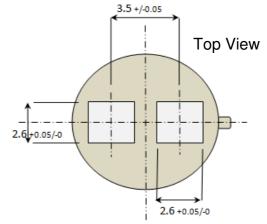
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Package Information

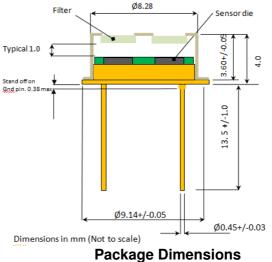


Pin compatible with leading brands





Filter Window Size

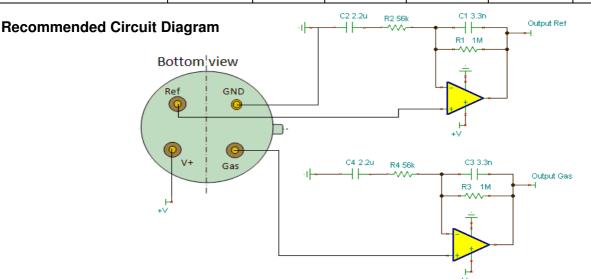


Voltage mode output

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 CWL μm (HBP nm)	CO ₂ 4.26(180)	CO 4.64(180)	CH ₄ 3.30(160)	H-C 3.375(190)	CO ₂ Narrow 4.27(90)	CO Narrow 4.64(90)	Ref. 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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