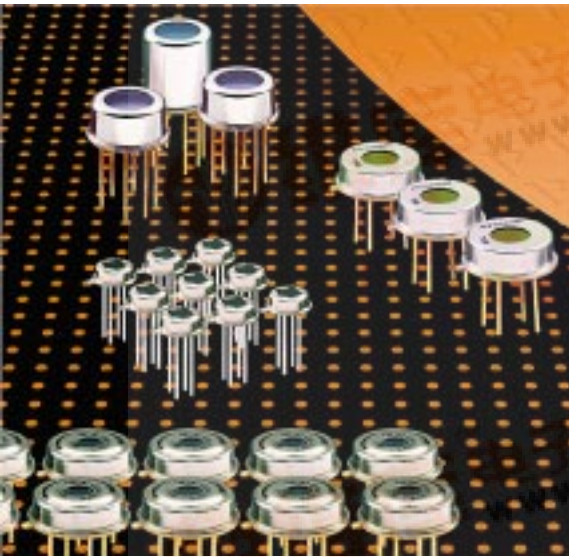


Thermopile Infrared Detectors

Dual Channel Thermopile TPS 2534



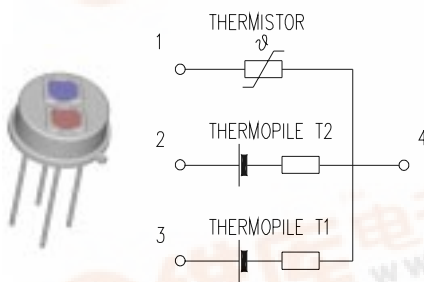
Two thermopiles with individual infrared filters

Thermistor temperature reference included

Applications: infrared absorption (NDIR) gas sensing with reference channel

The dual thermopile sensor **TPS 2534** employs two single thermopile chips mounted in a TO 5-type housing with a 30 kΩ thermistor as temperature reference. The cap has two windows of size 2.3 x 2.6 mm² each which can be equipped with different infrared bandpass filters. The sensor is perfectly suited to gas detection by IR absorption.

For further information please refer to the TPS 2534 product note.



Parameters	TPS 2534		units	condition
		typical		
Sensitive area	2x	1.2 x 1.2	mm ²	absorbing area
Window size		2.3 x 2.6	mm ²	each channel
DC sensitivity		42	V/W	500K BB w/o filter
Resistance		30	kΩ	
Noise		30	nV/√Hz	r.m.s. 300K
NEP		10.7	nW/√Hz	500K BB w/o filter
D*		2.3 x 10 ⁸	cm√Hz/W	500K BB w/o filter
TC of sensitivity		-0.01	%/K	
TC of resistance		0.02	%/K	
Time constant		35	ms	
Operating temperature	-40	100	°C	non permanent
Storage temperature	-40	100	°C	non permanent
Thermistor resistance		30	kΩ	25°C
Thermistor beta		3964	K	25°C/100°C
Field of view	2x	90	°	at 50% points

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