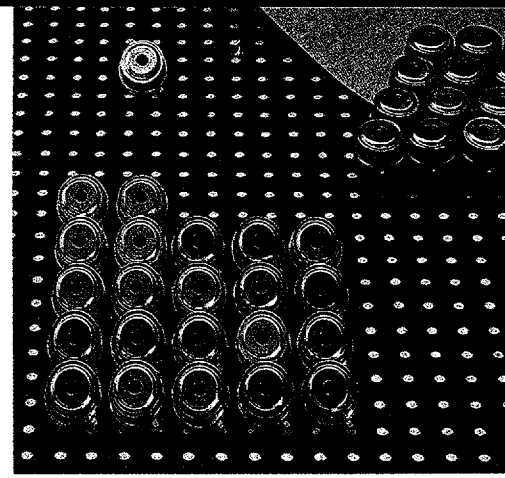


# TPS 2524 / 2534

- 1,2 x 1,2 mm<sup>2</sup> Sensitive Area
- Low Temperature Coefficient of Responsivity
- Dual Channel Detector in TO-5 Housing
- Two Different selective IR Filters
- Designed for Gas Monitoring or two channel TPS



The sensor consists of two thermopiles, forming a sensitive area of 1,2 x 1,2 mm<sup>2</sup>. The sensor is hermetically sealed into a TO5 housing suited with two individual optical filters. For this design different narrow - band filters are available (see table). This detector is fitted with a thermistor temperature reference.

Parameter	Value	Unit	Conditions w/o Filter
Sensitive Area	1,2 x 1,2	mm <sup>2</sup>	Absorber
Responsivity	42	V/W	1Hz, 500K, typical
Resistance	40	kΩ	typical
Noise Voltage	25	nV/√Hz	r.m.s., 300K, 1Hz, typ.
NEP	0,6	nW/√Hz	1Hz, 500K, typical
Detectivity	2 * 10 <sup>8</sup>	cm√Hz/W	1Hz, 500K, typical
Time Constant	35	ms	typical
TC of Resistance	<0,1	%/K	
TC of Responsivity	0,01	%/K	typical
Temperature Range	-20..100	°C	Operation,
	-40..120	°C	Storage,
Thermistor		30kΩ	typical at 25°C

