

# TPS 535

- 1,2 x 1,2 mm<sup>2</sup> Sensitive Area
- 87 Thermoelements in Series
- Low Temperature coefficient of Sensitivity
- Available with narrow band filters

The thermopile detector TPS 535 consists of a series of thermoelements in series forming a sensitive area of 1,2 x 1,2 mm<sup>2</sup>. The sensor is hermetically sealed into a housing, similar to TO-39, with optical filter. The standard filter is 5,5...14 µm broadband window, additional narrow band filters are available. The Series TPS 535 is an thermopile design, additionally fit with a thermistor temperature reference.

| Type         | Centre Wave Length<br>CWL (µm) | HPB<br>(µm)    |
|--------------|--------------------------------|----------------|
| TPS 535 G1   | 4,64 (±1,0%)                   | 0,18 (±0,02%)  |
| TPS 535 G2   | 4,26 (±1,0%)                   | 0,18 (±0,02%)  |
| TPS 535 G2.2 | 4,43 (±1,0%)                   | 0,06 (±0,005%) |
| TPS 535 G4   | 5,30 (±1,0%)                   | 0,18 (±0,02%)  |
| TPS 535 G5   | 3,40 (±2,0%)                   | 0,18 (±0,02%)  |
| TPS 535 G5.1 | 3,46 (±1,5%)                   | 0,163 (±0,01%) |
| TPS 535 G7   | 10,90 (±0,5%)                  | 0,24 (±0,03%)  |
| TPS 535 G20  | 4,00 (±2,0%)                   | 0,09 (±0,02%)  |

| Type        | Transmission Range |
|-------------|--------------------|
| TPS 535 G9  | 8-14 µm            |
| TPS 535 G10 | 3-13 µm            |
| TPS 535 G14 | 3-5,0 µm           |

The electrical data are identical to TPS 524/534.

