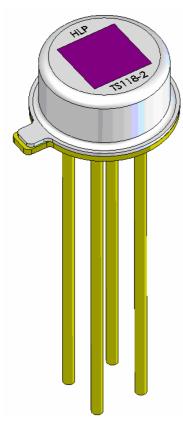
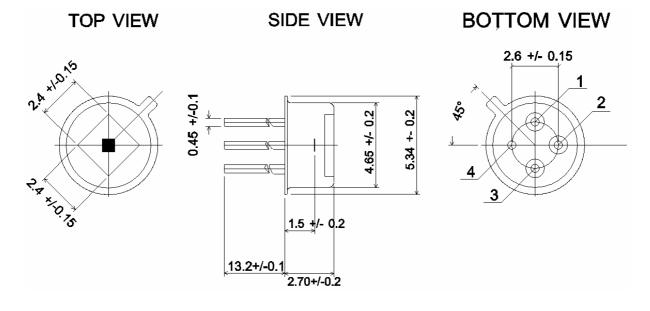
The TS118-2 is a thermopile sensor for use in contactless temperature measurement

Thermopiles are mainly used for conactless temperature measurement in many applications. Their function is to transfer the heat radiation emitted from the objects into voltage output. Major applications are appliances like microwave oven, clothes dryer, automatic cooking, medical devices like ear and fore head thermometer, automotive applications like car climate control, seat occupancy, blind spot alert, black ice detection, consumer products like printer, copier, mobile phone and many industry applications like paper web, plastic parts etc.



| Parameter | Typical | Condition |
|----------------------------|-------------------------|--|
| Package | TO-18 | |
| Absorber Area | 0.7×0.7 mm ² | |
| Resistance of Thermopile | 43±8 kΩ | +25 ℃ |
| TC of Resistance | -0.06±0.04 %/K | +25℃ → +75℃ |
| Thermopile Voltage | 8.0±2.0 mV | +25 °C, BB +100 °C,DC totally filled field of view |
| TC of sensitivity | -0.45±0.08 %/K | +25℃ → +75℃ |
| Noise Equivalent Voltage | 30 nV/Hz ^{1/2} | +25℃ |
| Rise Time | 20±5 ms | τ ₆₃ |
| Field of View | 120° | |
| Filter | 5.0 μm | cut on wavelength |
| Operation Temperature | -20 +85℃ | |
| Operation Temperature | -20 +100℃ | non permanent |
| Ambient Temperature Sensor | | |
| | | |
| | | |
| Connections | | |
| Pin 1 | TP + | |
| Pin 2 | | |
| Pin 3 | TP - | |
| Pin 4 | GND | |

Mechanical Dimensions

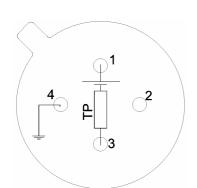




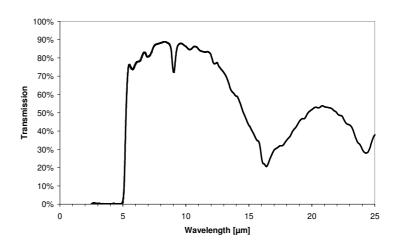
Thermopile Sensor TS118-2



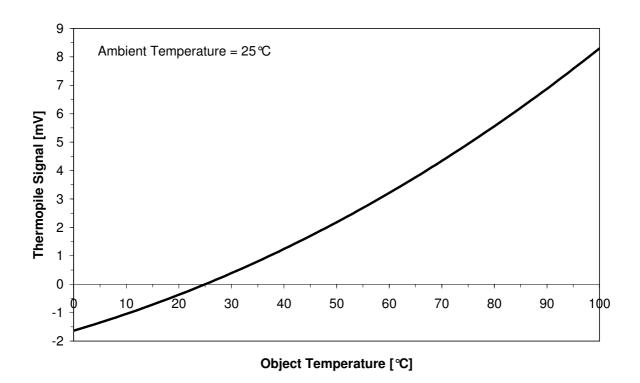
Connections Bottom View



Filter Transmission



Thermopile Signal



Additional products with different filters and packages are also available.

Specifications are subject to change without notice!