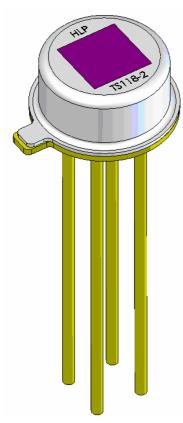


Thermopile Sensor TS118-2



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°C → +75°C
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 -	

GND

Mechanical Dimensions

Pin 4

TOP VIEW SIDE VIEW BOTTOM VIEW

2.6 +/- 0.15

2.70+/-0.2

Datasheet TS118-2 Version 07 November 2006

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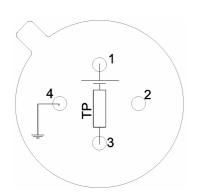
电话: +86 010 8477 5646 传真: +86 010 5894 9029



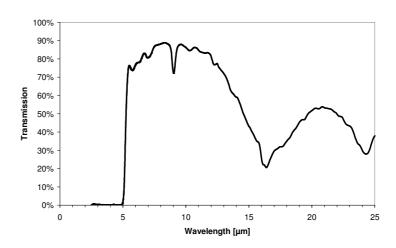
Thermopile Sensor TS118-2



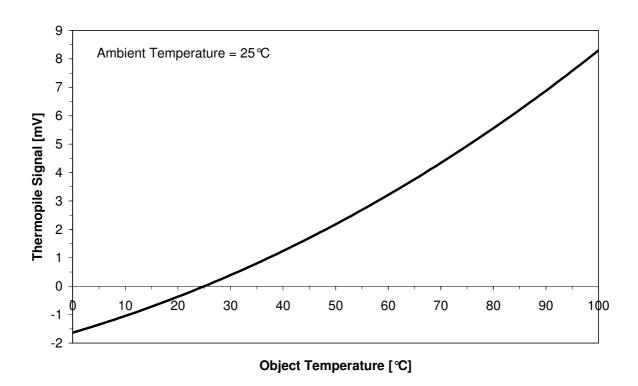
Connections Bottom View



Filter Transmission



Thermopile Signal



Additional products with different filters and packages are also available.

Specifications are subject to change without notice!

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