

### Typical Applications

- Contactless measurement of surface temperatures
- Temperature measurement of moving objects
- Remote measurement due to small angle of view
- Climate control
- Medical instruments



### Introduction

The Smartec infrared sensor type SMTIR9902SIL is a standard Smartec SMTIR9902 sensor equipped with a silicon lens for measuring radiation temperatures within a small angle of view (7.27°). The SMTIR9902SIL contains a NI1000 temperature sensor for measuring the temperature of the sensor itself. The temperature range of this internal sensor is - 20 to 100 °C. The sensor is mounted in a modified TO-05 encapsulation.

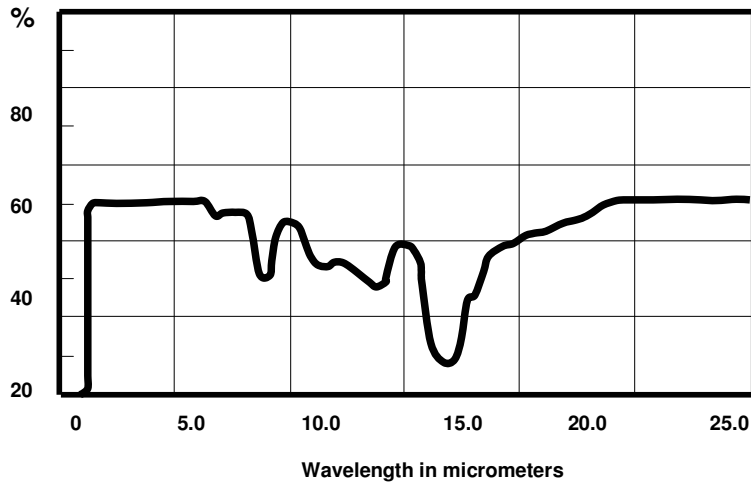
### Specifications

For parameters not specified here, the specifications of the SMTIR9902 are applicable.

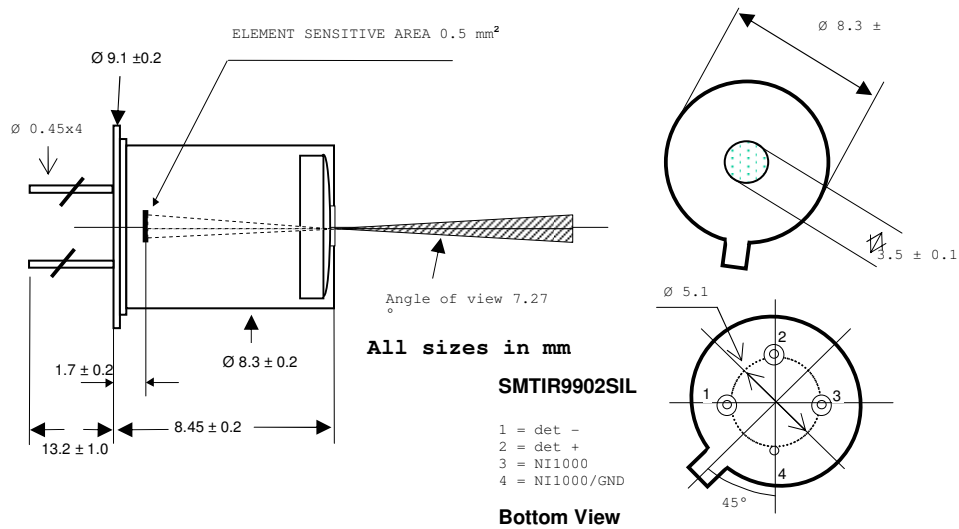
Parameters	Typical	units
Number of thermojunctions	100	
Active area	0.50	mm <sup>2</sup>
Resistance of thermopile	50 ± 15	kΩ
Time Constant	50 ± 10	ms (63%)
Temperature range (sensor)	-20 - 100	°C
Storage temperature	-40 - 100	°C
<b>Reference Thermistor</b>		
Resistance	1.000 ± 0.004	kΩ ( @ 0°C)

# SMTIR9902 INFRARED SENSORS

## FILTER (characteristic)



## Dimensions



## Ordering code:

SMTIR9902sil Infrared sensor with Ni sensor and silicon lens



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