

## **SMTIR9902SIL INFRARED SENSOR WITH SILICON LENS**

### 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

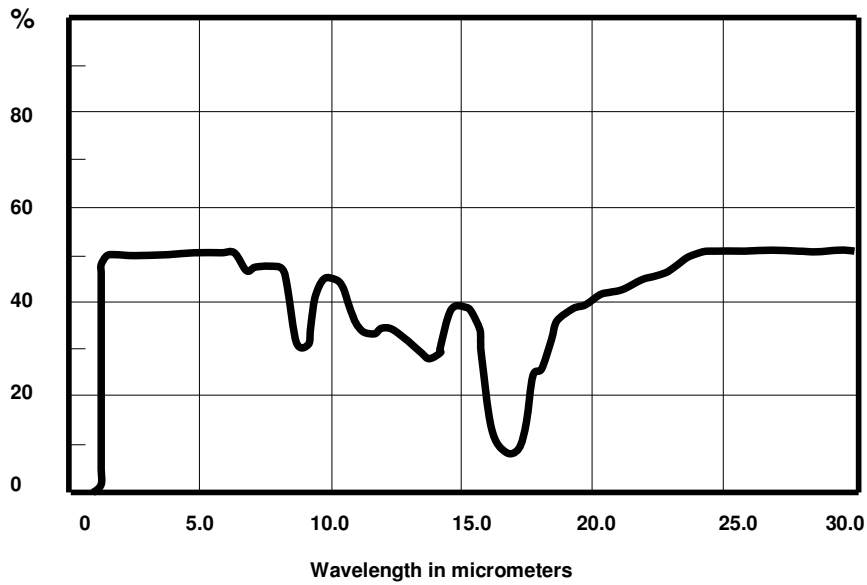
The Smartec infrared sensor type SMTIR9902SIL is a standard Smartec SMTIR9902 sensor equipped with a silicon lens for measuring radiation temperatures within a small angle of view (7.27°). The SMTIR9902SIL contains a Ni1000 temperature sensor for measuring the temperature of the sensor itself. The temperature 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.

<b>Parameters</b>	<b>typical</b>	<b>units</b>
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)

## FILTER(characteristic)



## Dimensions

