

One Channel Thermopile TS80T5

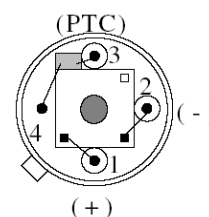
Thermopile Single Detector in Thin Film Technology with wide range Filter for Measuring of Infrared Radiation in the Range of 8 μ m - 14 μ m with integrated Thermistor.

Type	TS80T5	
Diameter active Area	0,5	mm
Aperture	0,5	mm
Number of Junctions	80	
Resistance (at 25°C)	20 \pm 8	k Ω
Resistance-T.C.	-0,03	%/K (+25°C – 85°C)
Sensitivity-T.C.	-0,4	%/K (+25°C – 85°C)
Noise Voltage (at 25°C)	33	nV/Hz ^{*1}
DC Output Voltage	0,3	mV ^{*2}
DC-Sensitivity ^{*1})	44	V/W ^{*2}
Time Constant $t_{(0-63\%)}$	typ. 60	ms (Air)
Backfill Gas	Krypton	other gases on customer's request
D* (500K black body, DC) ^{*1})	5,99x10 ⁷	cm/Hz ^{*1/2} /W
Noise Equivalent Power	typ. 0,74	nW/Hz ^{*1/2}
Filter	bandmass 8-14 μ m	other gases on customer's request
Thermistor	TRS-Si	
Operation Temperature	-20 ... +85	°C
Mass	0,95	g
Housing	TO39 (modified)	
Guarantee	5 years	

May 2009– Changes possible

^{*1}) without considering of window material
^{*2}) H=38 μ W/mm² air without window

View Top



Connections:

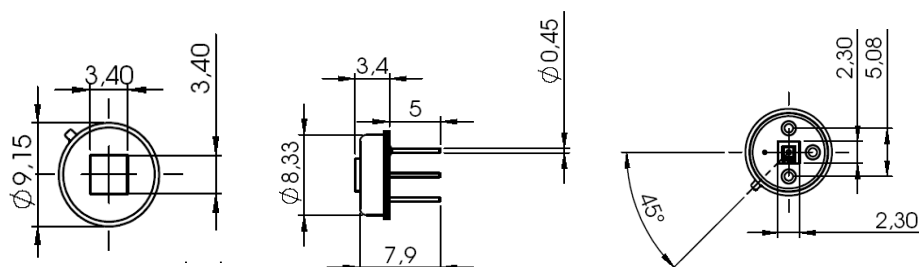
Pin 1 Output +
 Pin 2 Output -
 Pin 3 PTC
 Pin 4 PTC

Thermistor

TRS-Si
 1k Ω \pm TK 3300 \pm 200ppm/K

Order Information:

TS80T5 IR-Detector Art.-Nr. 4592.67-4.02 (other Types on customers request)



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