

Applications

- Infant ear thermometers
- Non-contact thermometers

This thermopile sensor is used for non-contact surface temperature measuring. The ZTP-015 model consists of thermo-elements, flat IR filter, a thermistor for temperature compensation and a hermetically-sealed TO-41 (small-size) package.

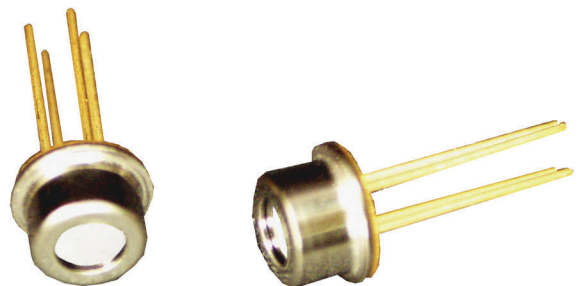
Features

- Ultra small-size sensor (TO-41 package)
 - Included ambient temperature (thermistor) sensor for compensation
 - High sensitivity
 - Fast response time
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ZTP-015

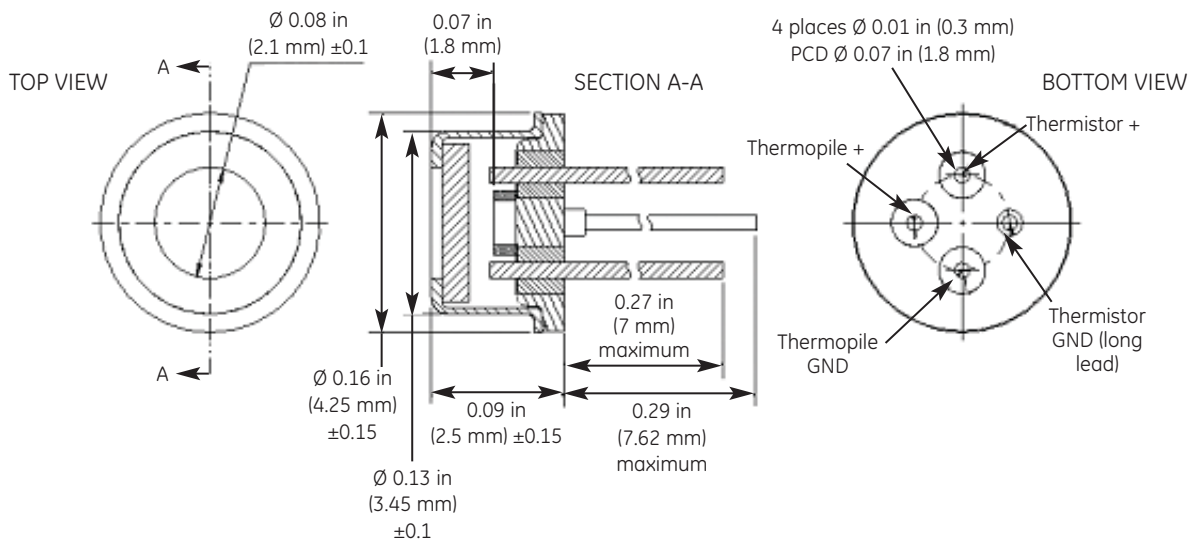
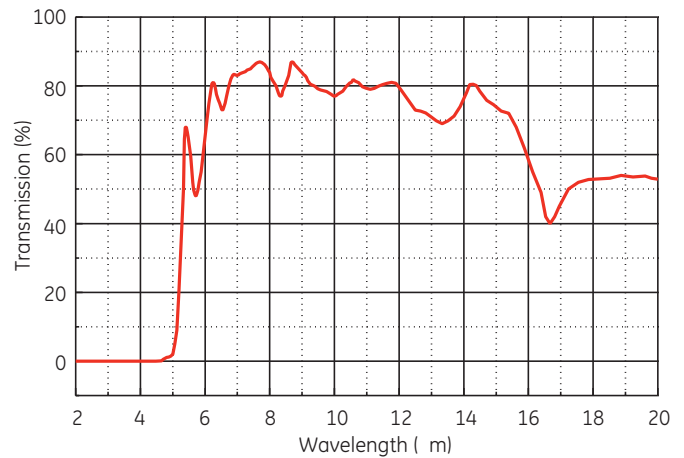
Thermometrics IR Sensor

ZTP-015 is a Thermometrics product. Thermometrics has joined other GE high-technology sensing businesses under a new name—GE Industrial, Sensing.



ZTP-015 Specifications

Parameter	Unit	Value	Condition
Chip Size	mm ²	1.2 x 1.2	—
Diaphragm Size	mm ²	0.8 x 0.8	—
Number of Couples	—	60	—
Active Area	mm ²	0.4 x 0.4	—
Internal Resistance	k Ω	60 $\pm$ 30%	—
Resistance T.C.	% °F (°C)	< 0.10	—
Responsivity	V/W	33 $\pm$ 30%	500K, 1 Hz
Responsivity T.C.	% °F (°C)	-0.1	Typical
Noise Voltage	nV rms	38	R.M.S, Typical
NEP	nW/ $\sqrt$ Hz	0.4	500K, 1 Hz, Typical
Detectivity	cn $\sqrt$ Hz/W	1.00E + 08	500K, 1 Hz, Typical
Time Constant	ms	20	500K, 1 Hz, Typical
Operating Temperature	°F (°C)	-4°F to 212°F — (-20°C to 100°C)	—
Storage Temperature	°F (°C)	-4°F to 248°F — (-40°C to 120°C)	—
Thermistor Resistance	k Ω	100 $\pm$ 3%	@ 77°F (25°C)
Beta	K	3960 $\pm$ 1%	
Package Type	—	TO-41	—



ZTP-015 dimensions



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