THERMOMETRICS
A COMMITMENT TO EXCELLENCE

ZTP-315D1

Thermometrics IR Sensor

This thermopile sensor is used for non-contact surface temperature measuring. The ZTP-315D1 model consists of thermo-elements, a flat IR filter, thermistor for temperature compensation and a hermetically-sealed TO-5(39) package with heat sink. There is also a variety of filters available to help maximize performance in specific applications.

Applications

- Non-contact thermometers
- Climate control in vehicles
- Skin thermometers

Features

- High sensitivity
- Included ambient temperature (thermistor) sensor for compensation
- Fast response time

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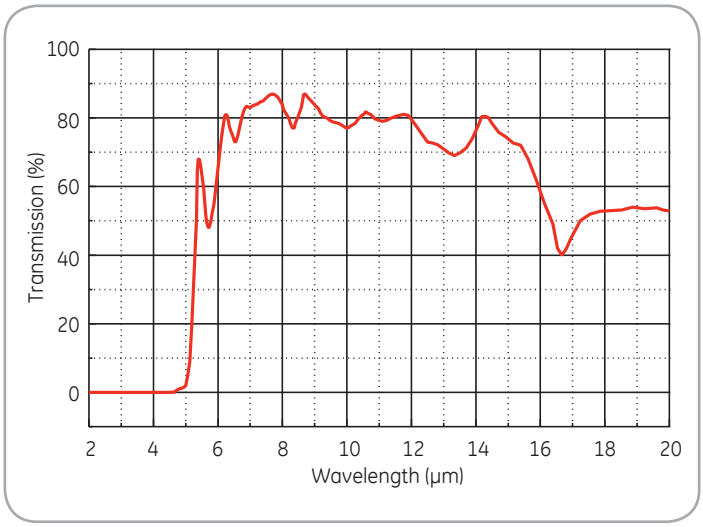
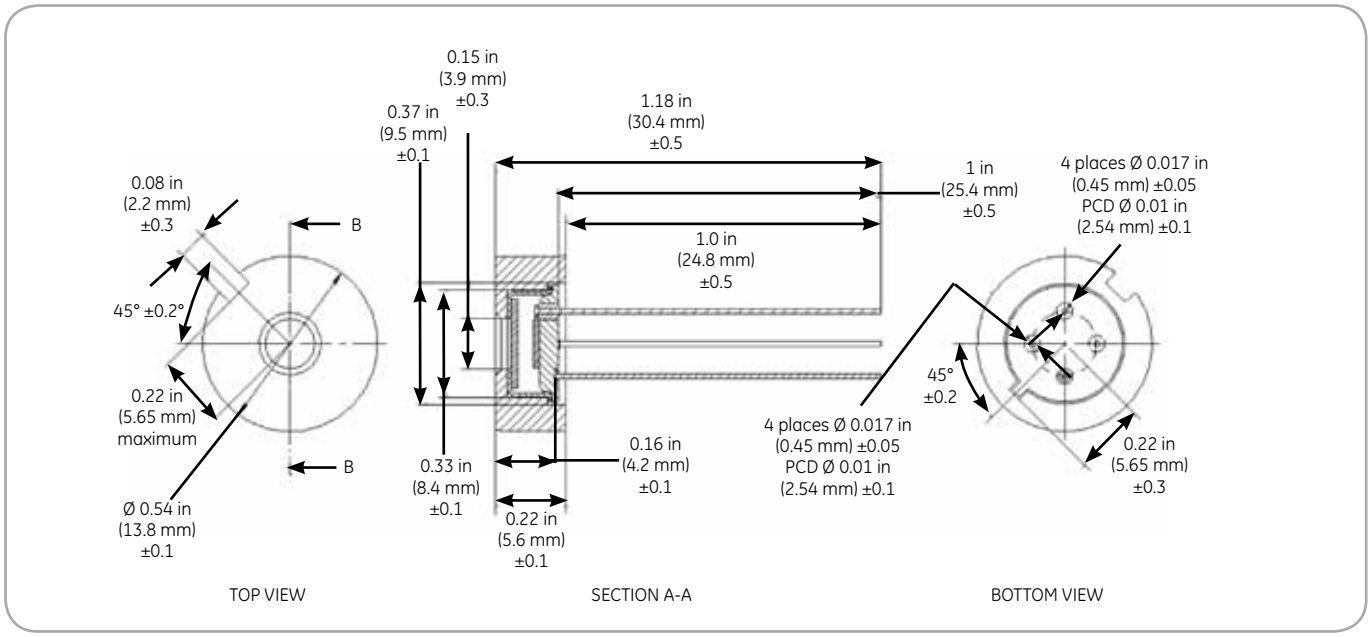
ZTP-315D1 Specifications

Parameter	Unit	Value	Condition
Chip Size	mm^2	3.6 x 3.6	_
Diaphragm Size	mm^2	2.6 x 2.6	_
Number of Couples	_	68	_
Active Area	mm^2	1.3 x 1.3	_
Internal Resistance	kΩ	50 ±20%	_
Resistance T.C.	% °F (°C)	< 0.12	_
Responsitivity	V/W	32 ±30%	500K, 1 Hz
Responsitivity T.C.	% °F (°C)	-0.11	Typical
Noise Voltage	nV rms	30	R.M.S, Typical
NEP	nW/ √Hz	0.94	500K, 1 Hz, Typical
Detectivity	cn √Hz/W	1.38E + 08	500K, 1 Hz, Typical
Time Constant	ms	24	500K, 1 Hz, Typical
Operating Temperature	°F (°C)	-4°F to 212°F (-20°C to 100°C)	_
Storage Temperature	°F (°C)	-40°F to 248°F (-40°C to 120°C)	-
Thermistor Resistance Beta	kΩ K	30 ±1% 3811 ±1%	@ 77°F (25°C)
Package Type	-	TO-5	-





ZTP-315D1 dimensions

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