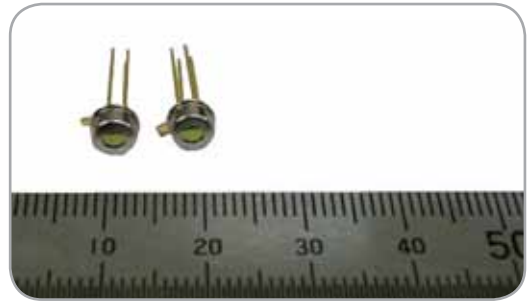




T H E R M O M E T R I C S
A C O M M I T M E N T T O E X C E L L E N C E

ZTP-135SR-G3

Thermometrics CO₂ Detector



NDIR detectors are simple optical devices often used for gas analysis. The ZTP-135SR-G3 model consists of thermo-elements, a narrow band path (NBP) filter, a thermistor for temperature compensation and a hermetically-sealed TO-46(18) package. This NDIR thermopile detector can provide the customer with other NBP filters for analyzing various gases.

Applications

- Nondispersive Infrared (NDIR) CO₂ detection

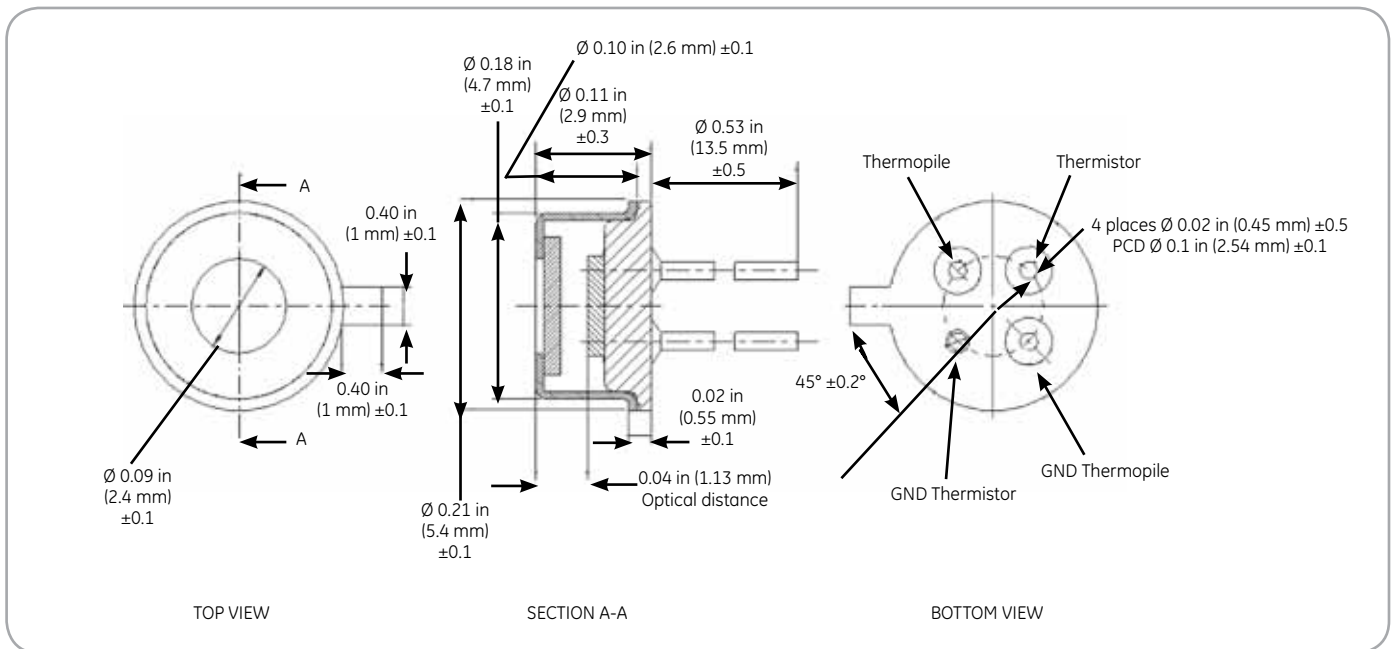
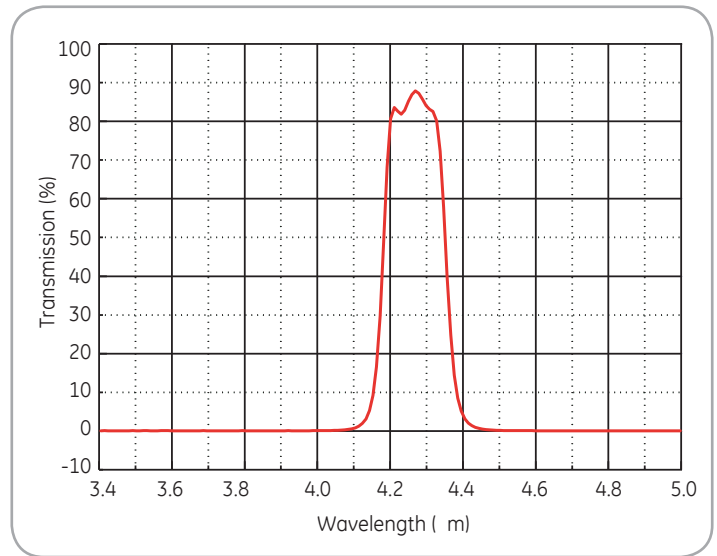
Features

- Small-size sensor (TO-46 package)
- Included ambient temperature (thermistor sensor for compensation)
- High sensitivity
- Fast response time
- Low cost

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ZTP-135SR-G3 Specifications

Parameter	Unit	Value	Condition
Chip Size	mm ²	1.8 x 1.8	-
Diaphragm Size	mm ²	1.4 x 1.4	-
Number of Couples	-	60	-
Active Area	mm ²	0.7 x 0.7	-
Internal Resistance	kΩ	60 ±30%	@ 77°F (25°C)
Resistance T.C.	% °F (°C)	< 0.12	-
Responsivity	V/W	62 ±30%	500K, 1 Hz
Responsivity T.C.	% °F (°C)	-0.10	Typical
Noise Voltage	nV rms	32	R.M.S, Typical
NEP	nW/√Hz	0.51	500K, 1 Hz, Typical
Detectivity	cn √Hz/W	1.35E + 08	500K, 1 Hz, Typical
Time Constant	ms	25	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	kΩ	100 ±3%	@ 77°F (25°C)
Beta%	K	3960 ±1	
Package Type	-	TO-41	-



ZTP-135SR-G3 dimensions

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