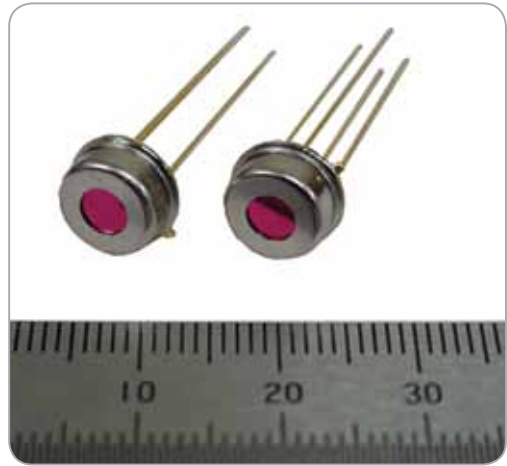


T H E R M O M E T R I C S
A COMMITMENT TO EXCELLENCE

ZTP-135-G3

Thermometrics CO₂ Detector



NDIR detectors are simple optical devices often used for gas analysis. The ZTP-135-G3 model consists of thermo-elements, a narrow band path (NBP) filter, a thermistor for temperature compensation and a hermetically-sealed TO-5(39) package. This NDIR thermopile detector can provide the customer with other NBP filters for analysis of various gases.

Applications

- Nondispersive Infrared (NDIR) CO₂ detection (dual sensor)

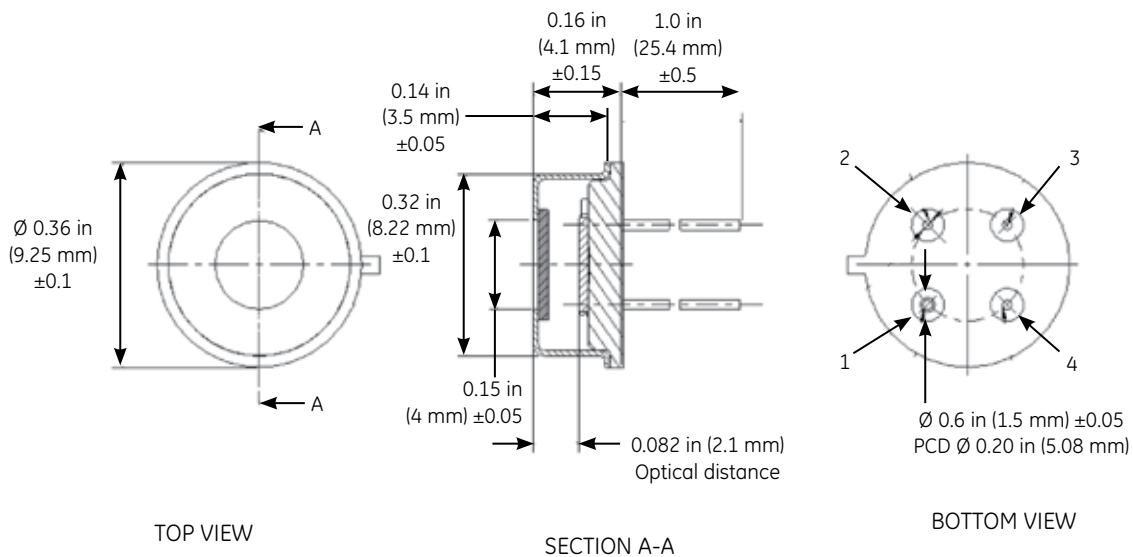
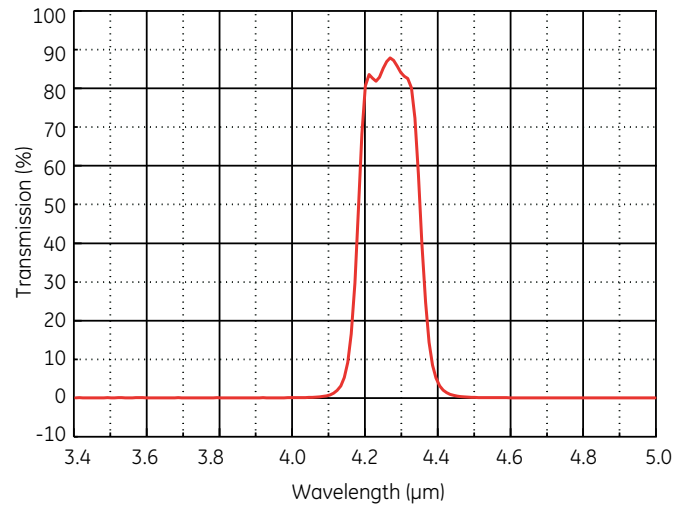
Features

- TO-5 package
- Included ambient temperature (thermistor) sensor for compensation
- High sensitivity
- Fast response time
- Low cost

Amphenol
Advanced Sensors

ZTP-135-G3 Specifications

Parameter Condition	Minimum	Limits Type	Maximum	Units	
Chip Size	–	3.6 x 3.6	–	mm ²	–
Diaphragm Size	–	2.6 x 2.6	–	mm ²	–
Active Area	–	1.3 x 1.3	–	mm ²	–
Internal Resistance	35	50	65	kS	77°F (25°C)
Resistance T.C.	–	–		0.12	% °F (°C)
Responsivity	22	32	42	V/W	500K, 1 Hz
Responsivity T.C.	–	-0.11	–	%°F (°C)	–
Noise Voltage	–	30	–	nV rms	R.M.S, 77°F (25°C)
NEP	–	0.94	–	nW/Hz ^{1/2}	500K, 1 Hz
Detectivity	–	1.38 E08	–	cn Hz ^{1/2} /W	500K, 1 Hz
Time Constant	–	25	–	ms	–



ZTP-135-G3 dimensions