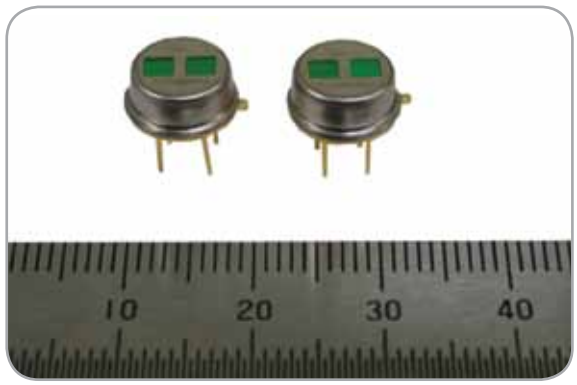
THERMOMETRICS
A COMMITMENT TO EXCELLENCE

ZTP-135D-G13

Thermometrics CO_2 Detector



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

Applications

- Nondispersive Infrared (NDIR) CO_2 detection (dual sensor)

Features

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

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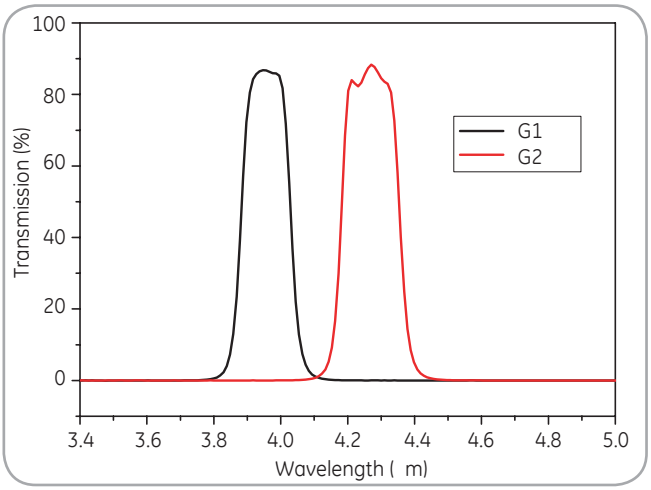
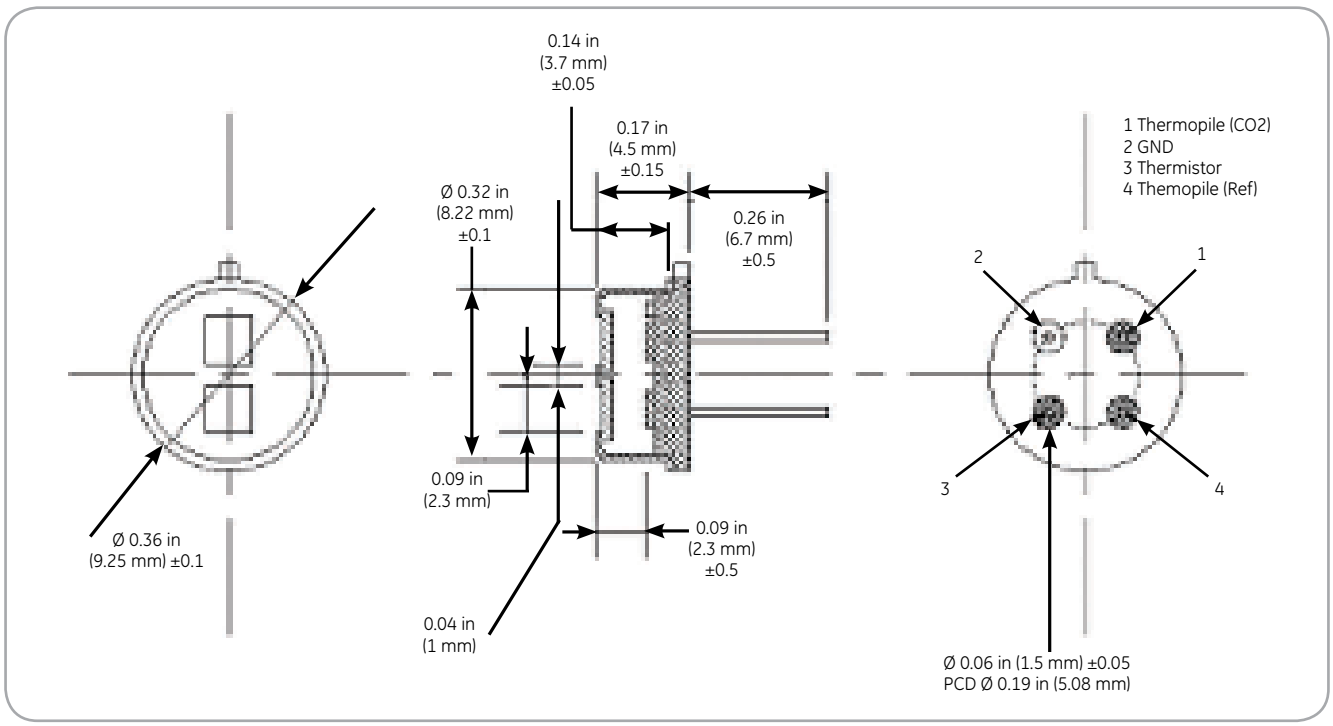
ZTP-135D-G13 Specifications

Parameter	Minimum	Limits Type	Maximum	Units	Condition
Chip Size	-	1.8 x 1.8	-	mm^2	2 chips in package
Diaphragm Size	-	1.4 x 1.4	-	mm^2	-
Active Area	-	0.7 x 0.7	-	mm^2	-
Internal Resistance	42	60	78	kΩ	77°F (25°C)
Resistance T.C.	-		0.12	% °F (°C)	-
Responsitivity	43	62	81	V/W	500K, 1 Hz standard filter
Responsitivity T.C.	-	-0.10	-	%°F (°C)	-
Noise Voltage	-	32	-	nV rms	R.M.S, 77°F (25°C)
NEP	-	0.51	-	nW/ $Hz^{1/2}$	500K, 1 Hz standard filter
Detectivity,	-	1.35 E08	-	cn $Hz1^{/2}$/W	500K, 1 Hz standard filter
Time Constant	-	25	-	ms	-





ZTP-15D-G13 dimensions

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