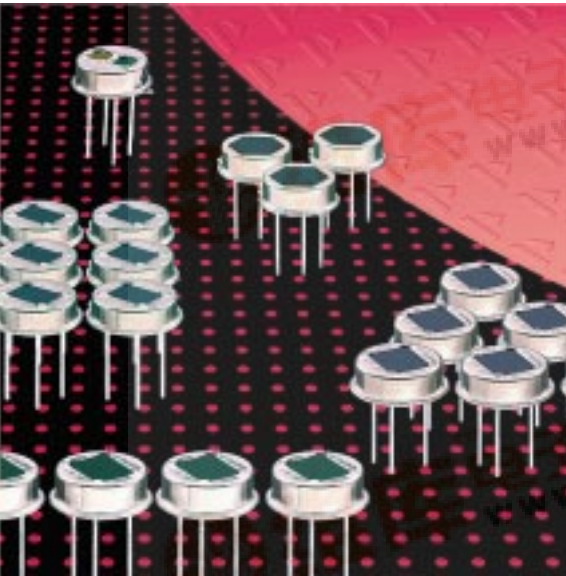


Pyroelectric Infrared Detectors

Single Element Detector LHi 907



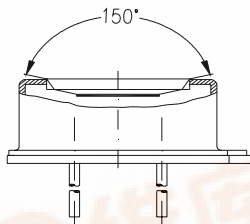
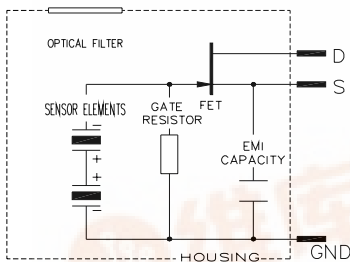
Round element design with compensation

Single FET output

Designed for ceiling mount applications

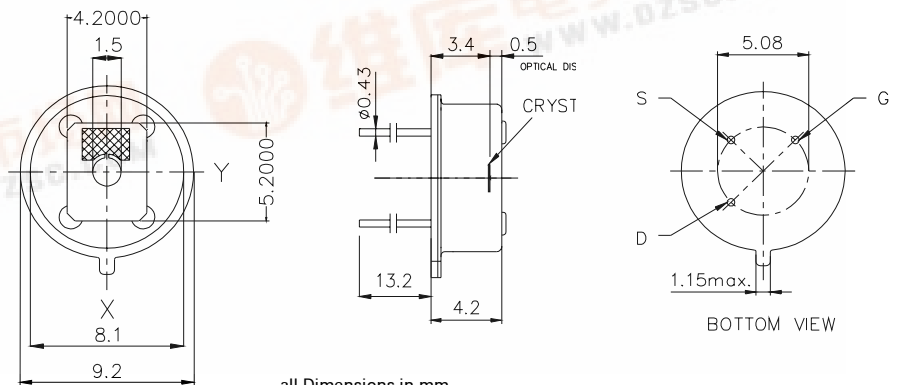
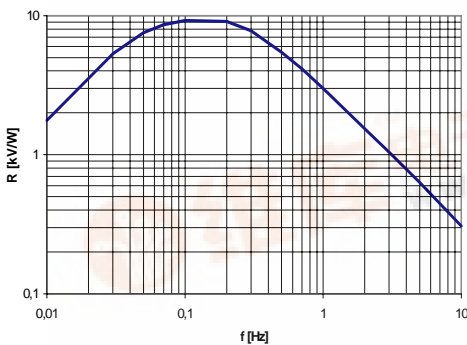
The **LHi 907** pyroelectric infrared-detector is a special design for motion control in ceiling mount applications. It includes a pyroelectric ceramic with a round sensitive element connected to one FET in source follower connection, and a compensational second element.

This detector is available in TO-5 housing with a standard infrared filter. It offers low noise, and special field of view and capture for ceiling mount applications.



Field of View

Parameters	LHi 907		units	condition
	min	typical max		
Element size		1,77	mm ²	(1 element)
Responsivity	3300	4000	V/W	100°C, 1 Hz
Noise		20	50	µVpp 25°C, 0,3...10Hz
Offset Voltage	0,2		1,5	V R _s =47kΩ, 25°C
NEP		7,5x10 ⁻¹⁰	23x10 ⁻¹⁰	W √Hz 1Hz Bw, 100°C, 1 Hz
D*	6x10 ⁷	19x10 ⁷	cm √Hz/W	1Hz Bw, 100°C, 1 Hz
Output Impedance		5	10	kΩ R _s =47kΩ, 25°C
Operating Voltage	2		15	V R _s =47kΩ, 25°C
Field of View, horizontal		150°		unobstructed
Field of View, vertical		145°		unobstructed
Operating Temp.	-40		85	°C non permanent
Storage Temperature	-40		85	°C non permanent



all Dimensions in mm

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DATASHEET

