

## Pyroelectric Infrared Detectors

# Dual Element Detector LHi 968

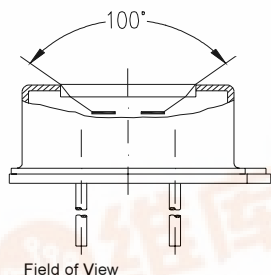
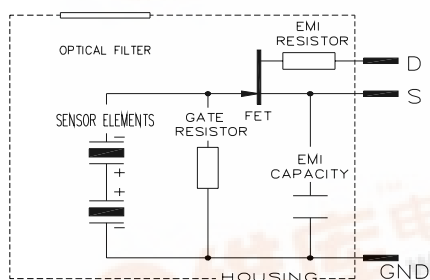
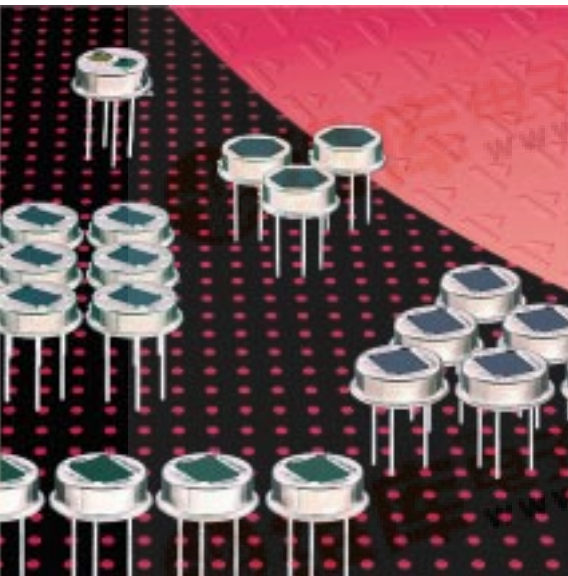
## High End Dual Element Detector

## Special RFI Protection

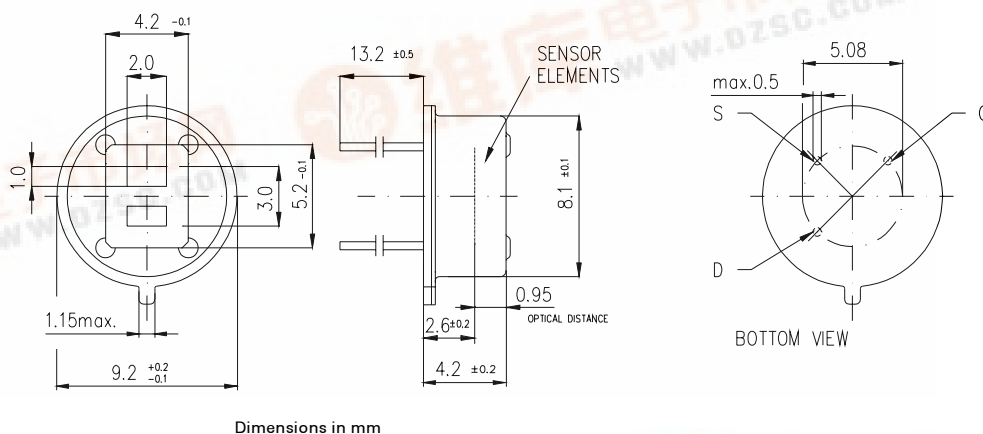
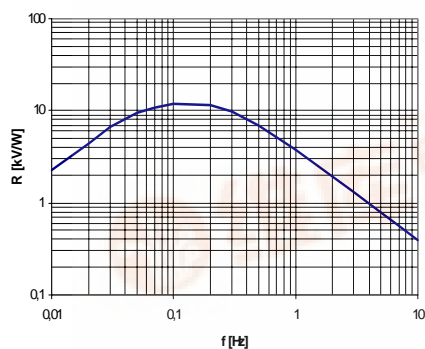
## Designed for PIR Alarms

The **LHi 968** pyroelectric infrared-detector series is specially designed for Intrusion Alarm applications. It includes a dual element pyroelectric ceramic with FET in source follower connection and RF protection by a resistor and additional capacitor.

This detector is available in **TO-5** housing with an infrared filter which protects the elements from strong white light disturbance. It offers high responsivity with excellent common mode performance (match) and low noise.



Parameters	LHi 968				
	min	typical	max	units	condition
<b>Element size</b>		2 x 1		mm <sup>2</sup>	(2 elements)
<b>Responsivity</b>	3 300	3800		V/W	100°C, 1 Hz
<b>Match</b>		1	10	%	
<b>Noise</b>		20	50	µVpp	25°C, 0,3...10Hz
<b>Offset Voltage</b>	0,2		1,5	V	25°C, R <sub>s</sub> =47kΩ
<b>NEP</b>		7,5x10 <sup>-10</sup>	28x10 <sup>-10</sup>	W √Hz	1Hz Bw, 100°C, 1 Hz
<b>D*</b>	5x10 <sup>-7</sup>	19x10 <sup>-7</sup>		cm √Hz/W	1Hz Bw, 100°C 1 Hz
<b>Output Impedance</b>		5	10	kΩ	R <sub>s</sub> =47kΩ, 25°C
<b>Operating Voltage</b>	2		15	V	R <sub>s</sub> =47kΩ, 25°C
<b>Field of View, horizontal</b>		100°			unobstructed
<b>vertical</b>		100°			unobstructed
<b>Operating Temperature</b>	-40		85	°C	non permanent
<b>Storage Temperature</b>	-40		85	°C	non permanent



Dimensions in mm