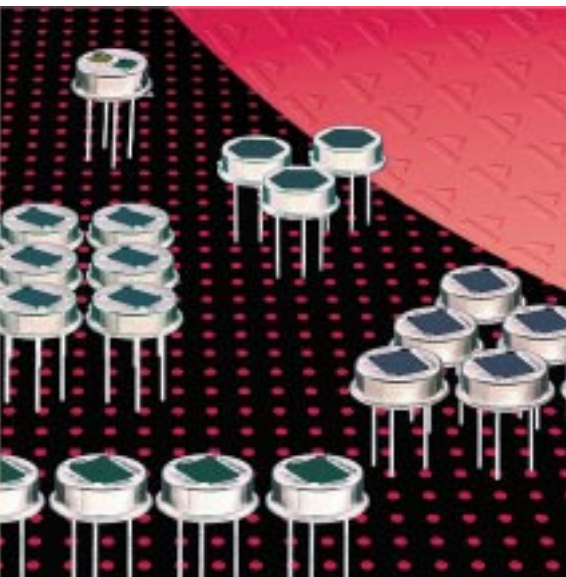


Dual Channel Detector LHi 814 Q.../Q...



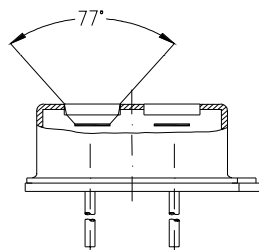
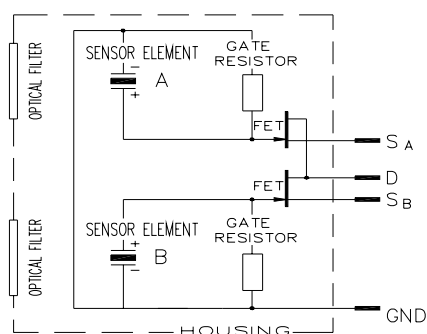
Two separate elements, size 1,5x1,5

Individual spectral window for each element

Designed for Gas Analysis applications

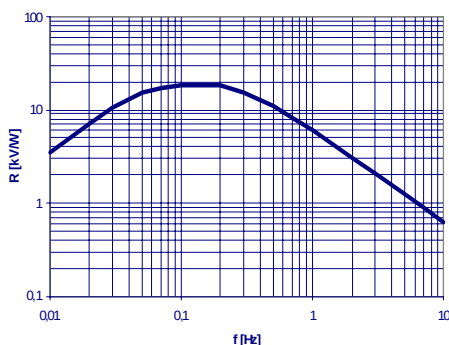
The **LHi 814** pyroelectric infrared-detector series is specially designed for gas analysis and monitoring applications. It includes two pyroelectric elements, each having a FET in source follower connection. Thus two outputs are given.

The detector is encapsulated into **TO-5** housing with two separated spectral narrow band infrared windows. There are many filters available for the selected spectral bandwidths. Often one channel is used as reference channel.



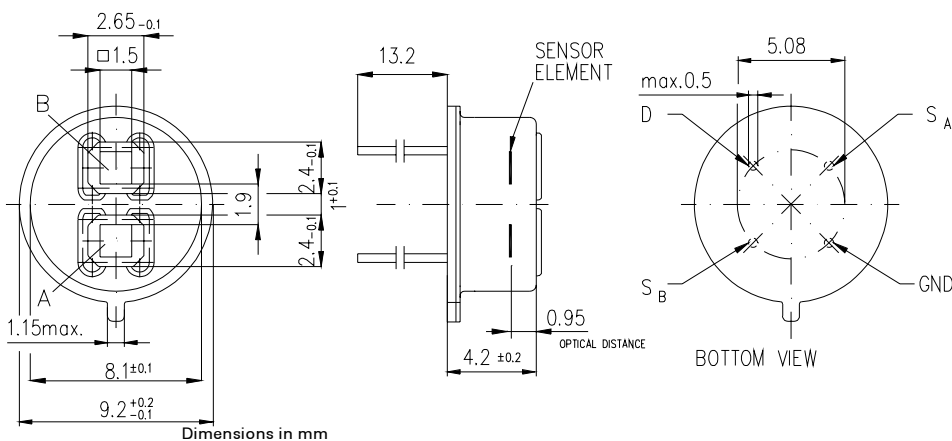
Field of View

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Frequency Response

Parameters	LHi 814				condition
	min	typical	max	units	
Element size		1,5x1,5		mm ²	
Responsivity	500	640		V/W	1Hz Bw, 100°C, 10 Hz
Noise	600	1200		nV _{RMS}	25°C, 10Hz
Offset Voltage	0,2	1,5		V	R _s =47kΩ, 25°C
NEP		9,4x10 ⁻¹⁰	24x10 ⁻¹⁰	W √Hz	1Hz Bw, 100°C, 1 Hz
D*	6x10 ⁷	16x10 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		77°			unobstructed
vertical		95°			unobstructed
Operating Temp.	-40		85	°C	non permanent
Storage Temperature	-40		85	°C	non permanent



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