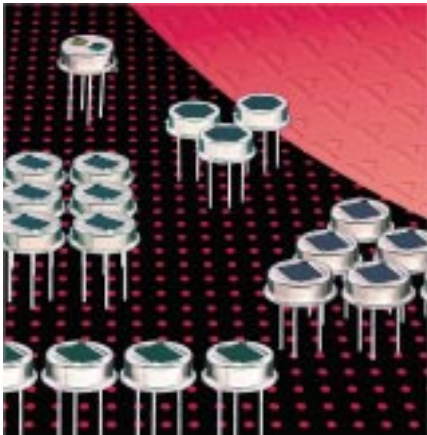


Pyroelectric Detector LHi 1148

Four Elements, Two FET Outputs

Optical IR Window

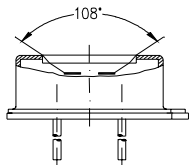


Quad element design

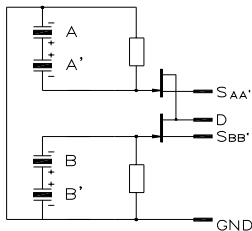
Designed for Alarm applications

The **LHi 1148** pyroelectric infrared detector is designed for high end PIR alarm applications. It includes a Quad type pyroelectric ceramic with 4 sensitive elements connected to two FET source follower circuits. Thus it provides for dual channel output. One channel is inverse to the other.

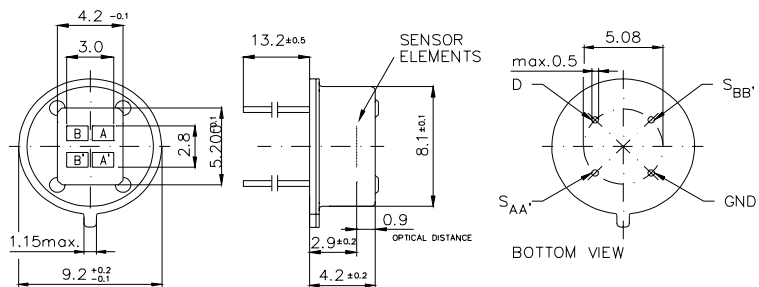
The **LHi 1148** detector is available in **TO-5** housing with standard infrared filter. It offers excellent common mode performance (match) and low noise.



Field of View



Parameters	LHi 1148			units	condition
	min	typical	max		
Element size		1,375x1		mm ²	(4 elements)
Responsivity	3 500	4 500		V/W	100°C, 1 Hz
Match		1	10	%	
Noise		30	75	µVpp	25°C, 0,3...10Hz
Offset Voltage	0,2		1,55	V	R _s =47kΩ, 25°C
D*	5x10 ⁻⁷	14x10 ⁻⁷		cm √Hz/W	1Hz Bw, 100°C, 1 Hz
Output Impedance		5	10	kΩ	R _s =47kΩ, 25°C
Operating Voltage	2		12	V	R _s =47kΩ, 25°C
Field of View, horizontal		108°			unobstructed
Field of View, vertical		67°			unobstructed
Operating Temperature	-40		85	°C	non permanent
Storage Temperature	-40		85	°C	non permanent



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