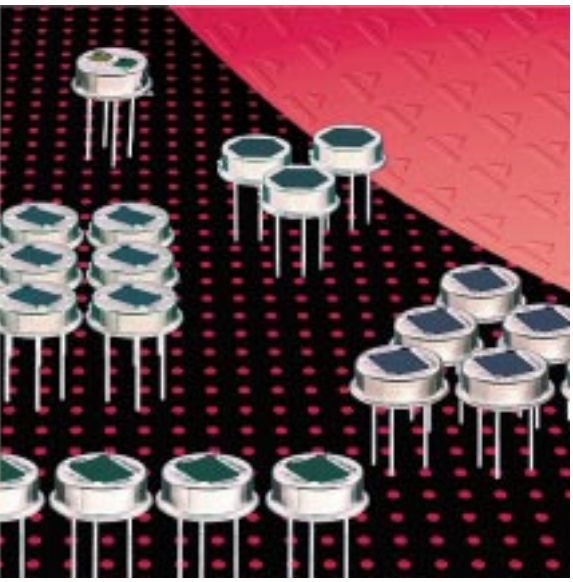
DATASHEET

Dual Element Detectors LHi 954 / 958

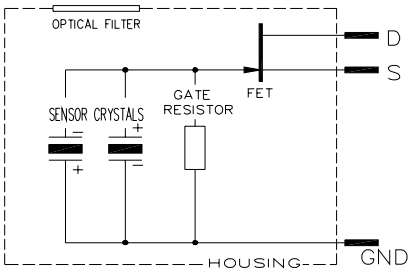


TO-39 /TO-5 housing

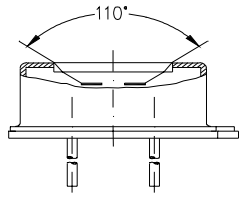
High reliability

Well proven design

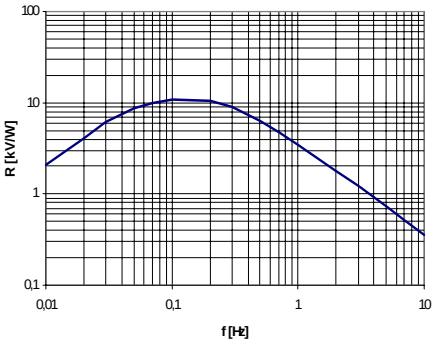
The **LHi 954** and **LHi 958** pyroelectric infrared-detectors have been a world standard for more than 10 years. They both are dual element types with FET in source follower connection. The **LHi 954** detector is available in **TO-39** housing with standard infrared filter whereas the **LHi 958** is the same detector in a **TO-5** housing with standard infrared filter.
It offers a highly stable responsivity with excellent common mode performance (match) and low noise .



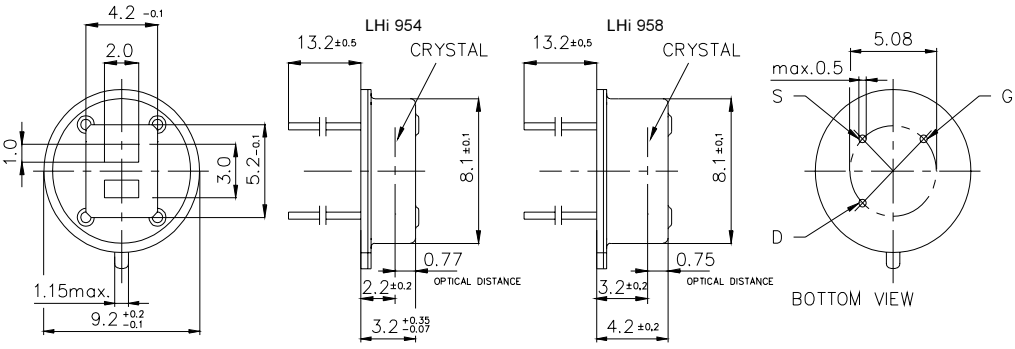
Parameters	LHi 954 / 958				
	min	typical	max	units	condition
Element size		2x1		mm^2	(2 elements)
Responsivity	3000	3700		V/W	100°C, 1 Hz
Match		1	10	%	
Noise		20	50	µVpp	25°C, 0,3...10Hz
Offset Voltage	0,2		1,50	V	R_S =47kΩ, 25°C
NEP		$8{,}1 \times 10^{-10}$	25×10^{-10}	W √Hz	1Hz Bw, 100°C, 1 Hz
D*	$5{,}6 \times 10^{7}$	$17{,}5 \times 10^{7}$		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		110°			unobstructed
vertical		110°			unobstructed
Operating Temp.	-40		85	°C	non permanent
Storage Temperature	-40		85	°C	non permanent



Field of View



Frequency Response



Dimensions in mm

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