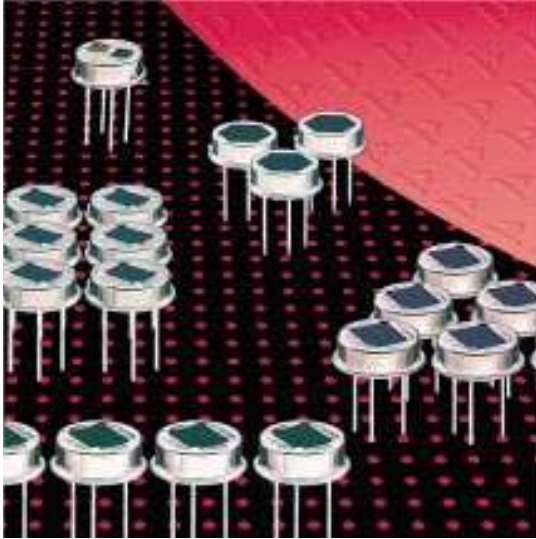


Pyroelectric Infrared Detectors

Dual Element Detectors LHi 954 / 958



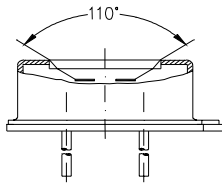
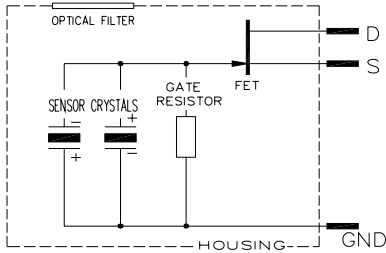
TO-39 / TO-5 housing

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.

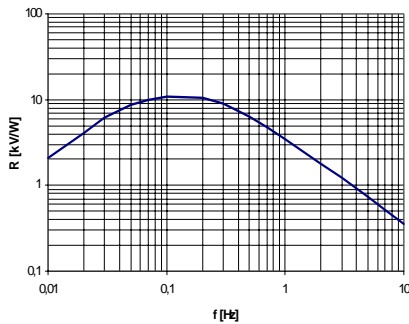
DATASHEET



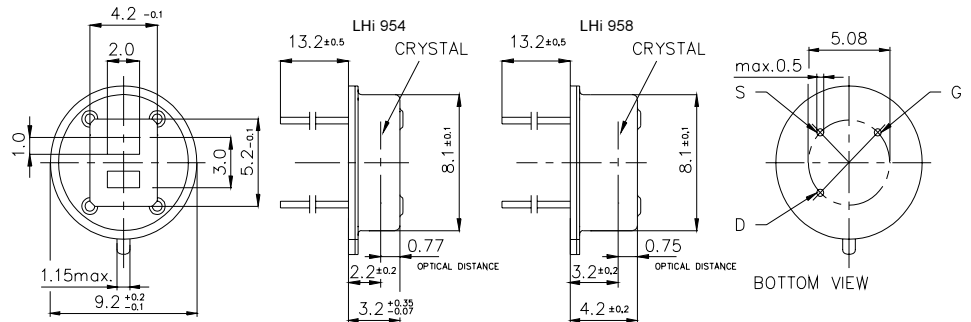
Field of View

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	8,1x10 ⁻¹⁰ 25x10 ⁻¹⁰		W √Hz	1Hz Bw, 100°C, 1 Hz
D*	5,6x10 ⁻⁷ 17,5x10 ⁻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
Field of View, vertical	110°			unobstructed
Operating Temp.	-40 85		°C	non permanent
Storage Temperature	-40 85		°C	non permanent

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Frequency Response



Dimensions in mm

Europe:
PerkinElmer Optoelectronics GmbH
 Wenzel Jaksch Str 31
 Wiesbaden / Germany
 Phone +49(0)611 492 0
 Fax +49(0)611 492 170

USA:
PerkinElmer Optoelectronics
 2175 Mission College Blvd
 Santa Clara, CA 95054
 Phone +408 565 0830
 Fax +408 565 0703

Asia:
PerkinElmer Optoelectronics
 47, Ayer Rajah Crescent #06-12
 Singapore 139947
 Phone +65 775 2022
 Fax +65 775 1008

