TO-5 housing

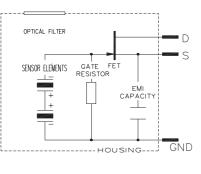
Competitive cost version

Designed for motion control

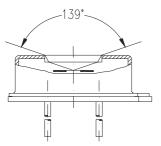
Imaging

The LHi 778 pyroelectric infrared-detector series are the standard dual element design recommended for all variants of motion control. They include a dual element pyro-electric ceramic element with Fet in source follower connection.

LHi 778 detector is available in TO-5 housing with standard infrared filter. It provides high responsivity with excellent common mode performance (match) and low noise at steady state and temperature changes.

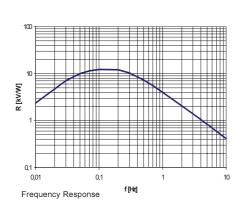


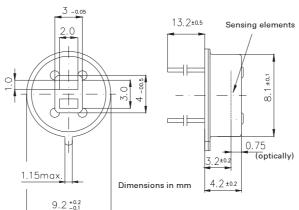
SENSOR ELEMENTS	CATE FET RESISTOR EMI CAPACITY HOUSING	GND
	470	

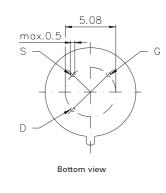


Parameters		Lili 770			
	min	typical	max	units	condition
Element size		2x1		mm²	2 elements
Responsivity	3 300	4000		VW	100°C, 1 Hz
Match		1	10	%	
Noise		20	50	μVpp	25°C, 0,310Hz
Offset Voltage	0,2		1,55	V	$R_{_{\rm S}}$ =47k Ω , 25°C
NEP		7,5×10 ⁻¹⁰	28x10 ⁻¹⁰	$W\sqrt{Hz}$	1Hz Bw, 100°C, 1 Hz
D*	5x10 ⁷	19x10 ⁷		cm √Hz/W	1Hz Bw, 100°C, 1 Hz
Output Impedance		5	10	$k\Omega$	47k Ω Load Res.
Operating Voltage	2		15	V	$R_{_{\rm S}}$ =47k Ω , 25°C

Operating Temperature	-40	85	°C	non permanent
Storage Temperature	-40	85	°C	non permanent







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