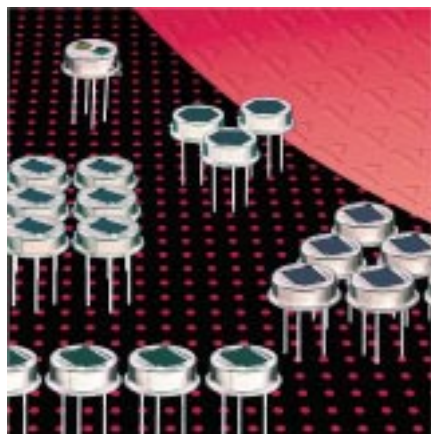


Pyroelectric Detector LHi 808TC

2x2 Single ELelement configuration including special optical window

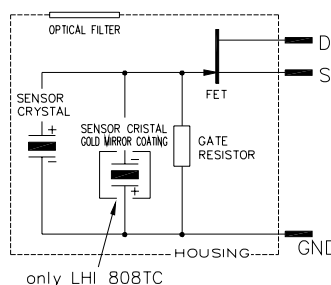
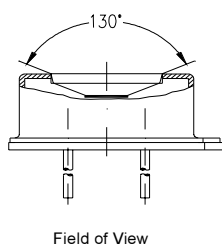


Non-Contact Temperature Measurement

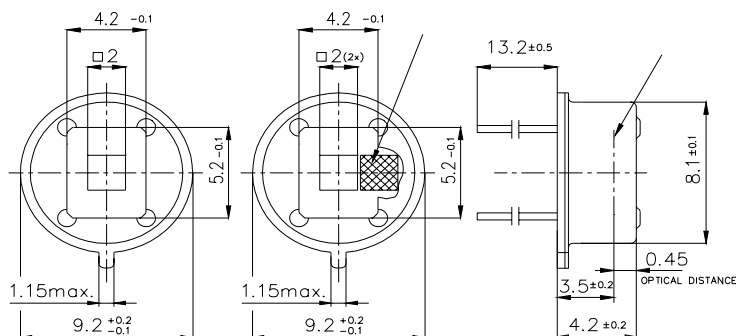
Gas Absorption Detection Applications

The **LHi 808TC** pyroelectric infrared-detector series is designed for infrared measurement and gas analysis applications. It includes a pyroelectric element with FET in source follower connection. This TC version includes thermal compensation by a special compensation element. A non-compensated version is available.

This detector is encapsulated into **TO-5** housing with an infrared window, which acts as specific filter. There are many narrow band filters available for the selected spectral bandwidths. For details about filters refer to catalogue envelope.



Parameters	LHi	808 / 808TC	min	typical	max	units	condition
Element size		2x2				mm ²	
Responsivity	807	210	300			V/W	100°C, 10 Hz
	808TC	105	150			V/W	100°C, 10 Hz
Noise	807	300	600			nV _{RMS}	25°C, 10Hz
	808TC	150	300			nV _{RMS}	25°C, 10Hz
Offset Voltage	0,2		1,5			V	R _s =47kΩ, 25°C
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	130°						unobstructed
vertical	110°						unobstructed
Operating Temp.	-40		85			°C	non permanent
Storage Temperature	-40		85			°C	non permanent



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