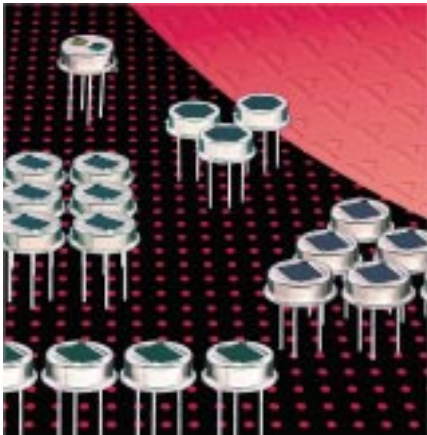


Pyroelectric Detector LHi 807TC / LHi 807

Single Element configuration including special optical window

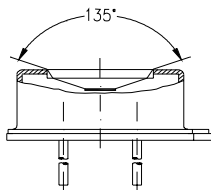


Non-Contact Temperature Measurement

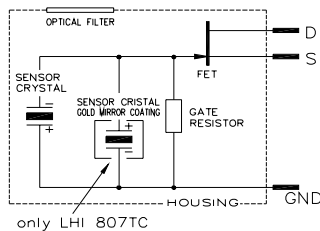
Gas Absorption Detection Applications

The **LHi 807 TC** pyroelectric infrared-detector series is specially designed for gas analysis and monitoring applications. It includes pyroelectric element with FET in source follower connection and a second element shut from radiation for thermal compensation. A non compensated version is available.

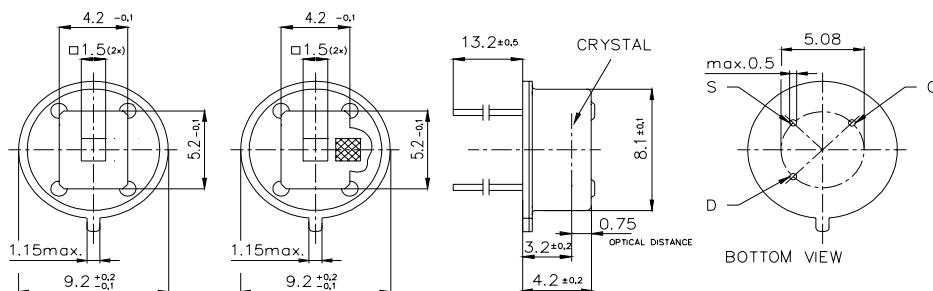
This detector is encapsulated into **TO-5** housing with an infrared window which acts as specific filter. There are many filters available for the selected spectral bandwidths, refer to catalogue envelope for the details.



Field of View



Parameters	LHi 807		807/ 807TC		units	condition
	min	typical	max			
Element size		1,5 x 1,5			mm ²	
Responsivity	807	500	640		V/W	100°C, 10 Hz
	807TC	250	320		V/W	100°C, 10 Hz
Noise	807		600	1200	nV _{RMS}	25°C, 10Hz
	807TC		300	600	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			135°			unobstructed
vertical			120°			unobstructed
Operating Temp.		-40		85	°C	non permanent
Storage Temperature		-40		85	°C	non permanent



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