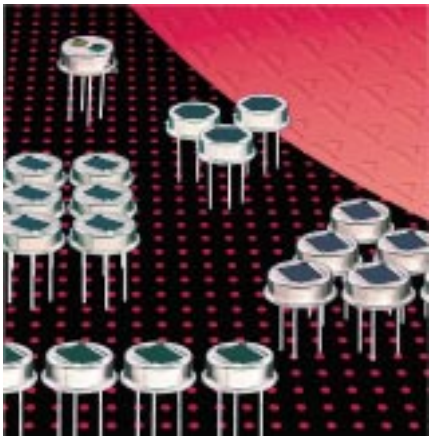
Pyroelectric Detector LHi 807TC / LHi 807

Single ELement configuration including special optical window

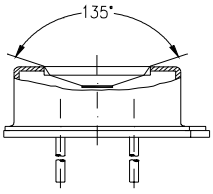


Non-Contact Temperature Measurement

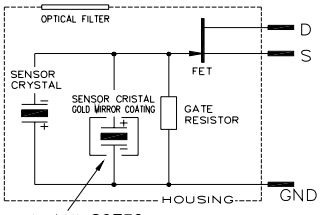
Gas Absorption Detection Applications

The **LHi 807 TC** pyroelectric infrared-detector series is specially designed for gas analysis and monitorring 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.

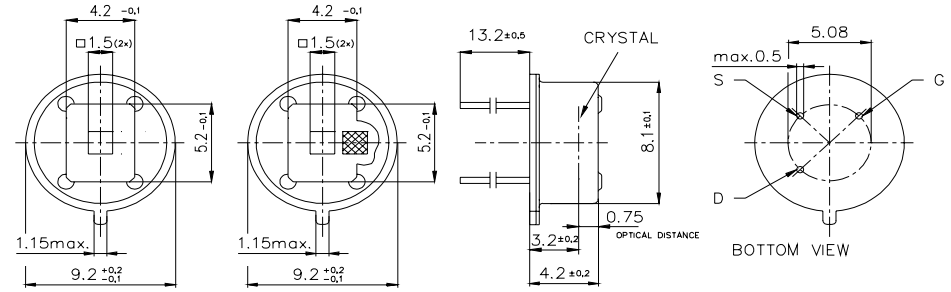


Field of View



only LHI 807TC

Parameters		LHi 807/ 807TC				
		min	typical	max	units	condition
Element size			1,5 x 1,5		mm²	
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



Dimensions in mm

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