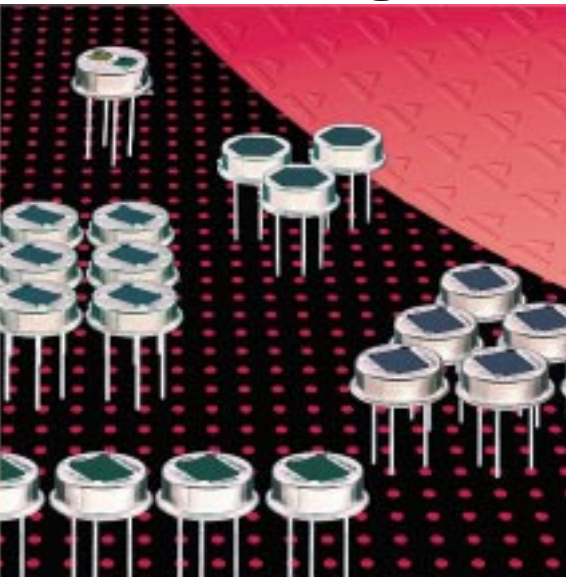


Single Element Detector LHi 807, 807TC



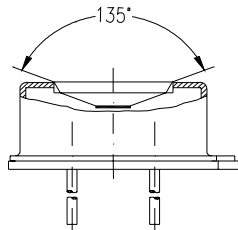
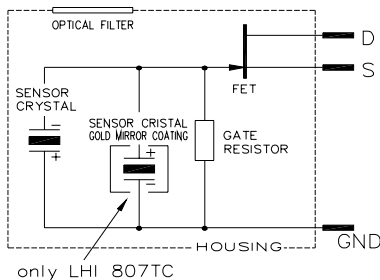
Element size 1,5x1,5

Thermally compensated option

Designed for Gas Analysis applications

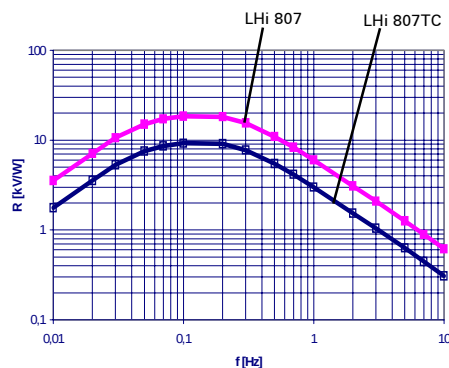
The **LHi 807** pyroelectric infrared-detector series is specially designed for gas analysis and monitoring applications. It includes pyroelectric element with FET in source follower connection and is available with a second element shut from radiation for thermal compensation.

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.

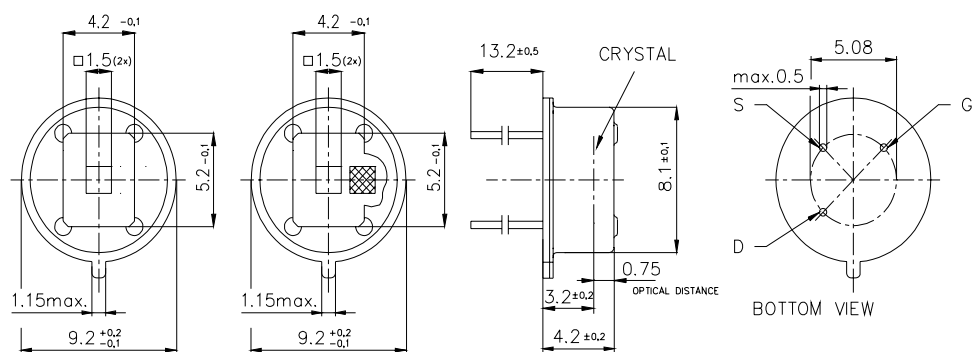


Field of View

Parameters		LHi 807/ 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
NEP			9,4x10 ⁻¹⁰	24x10 ⁻¹⁰	W √Hz	1Hz Bw, 100°C, 1 Hz
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



Frequency Response



Dimensions in mm

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