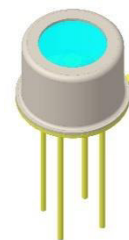


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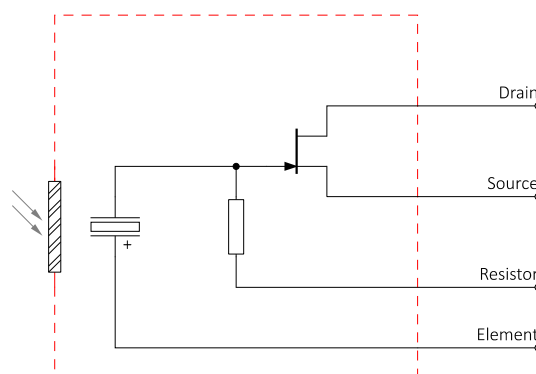
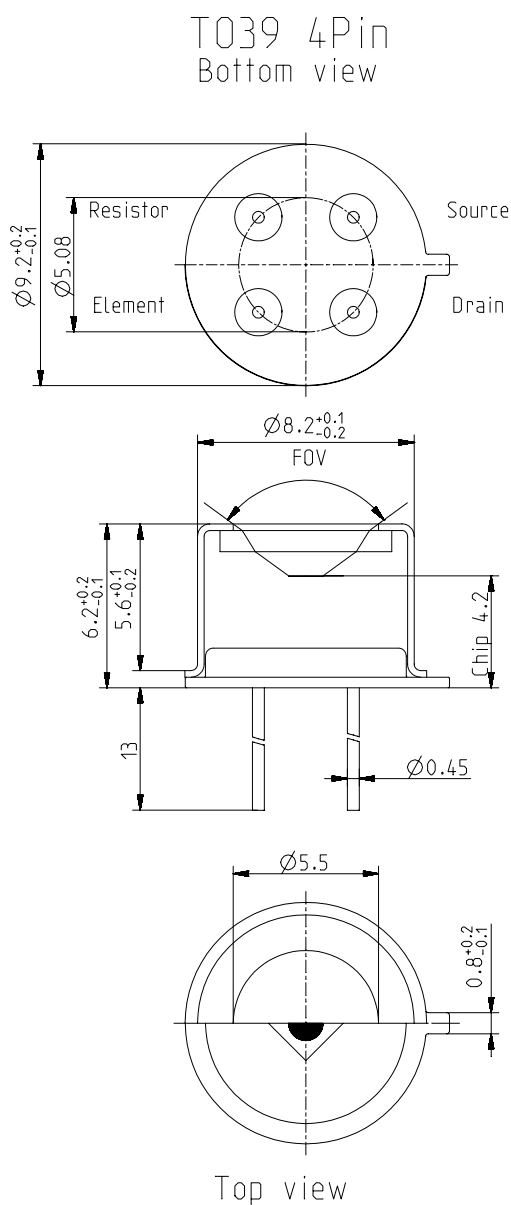
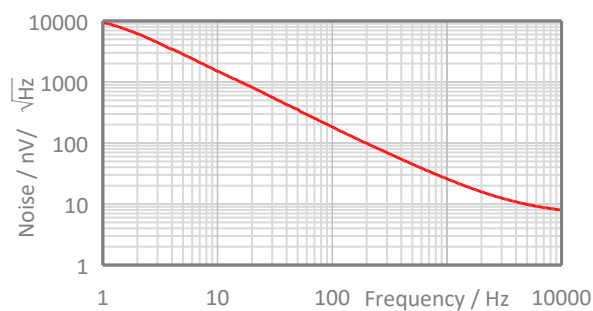
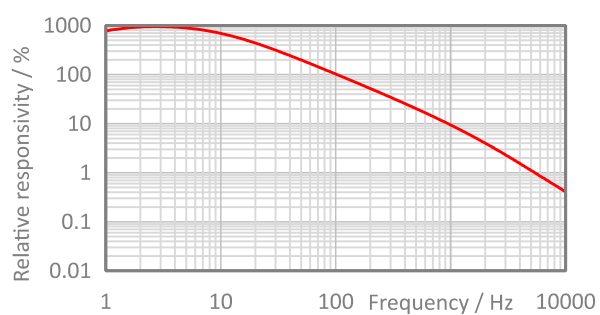
PYRONEER® enhanced pyroelectric detector

Description:

single channel; TO39 housing; small chip size;
 JFET; voltage mode;
 ch1: KBr;
 DLaTGS - Deuterated L-Alanine doped TriGlycine Sulphate;
 short thermal time constant, metal black coating;



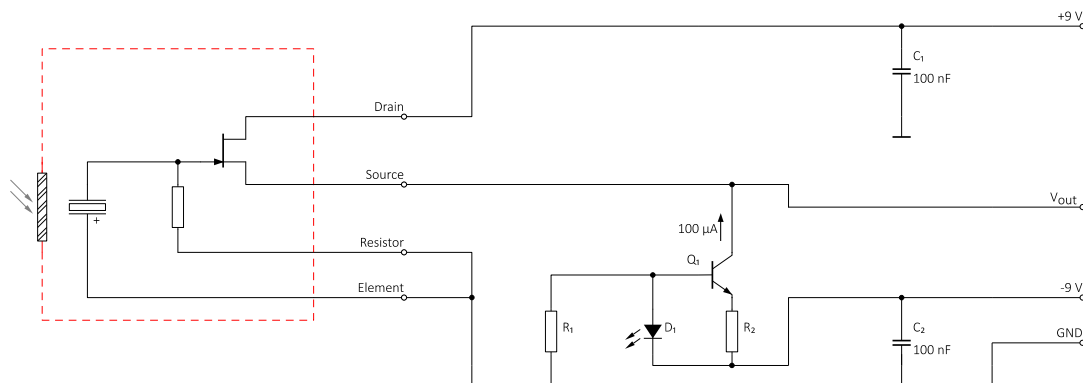
InfraTec Part number: S91296

Housing:**Pin Assignment:****Frequency Response:**

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PYRONEER® enhanced pyroelectric detector

Test Circuit:



Parameters:

Aperture size	nom	ø 5.5 mm
Element size / type	nom	ø1.3 mm DLATGS with metal black layer
Thermal time constant	typ	12 ms
Electrical time constant	typ	200 ms
Polarity	nom	Negative signal by positive IR flux change
Voltage responsivity (rms) {500 K, 100 Hz, 30±2 °C, window excluded}	min	550 V/W
	typ	650 V/W
Voltage responsivity (rms) {500 K, 1 kHz, 30±2 °C, window excluded}	min	55 V/W
	typ	65 V/W
Detectivity {500 K, 100 Hz, BW 1 Hz, 30±2 °C, window excluded}	min	4.5E+08 cmVHz/W
	typ	5.2E+08 cmVHz/W
Detectivity {500 K, 1 kHz, BW 1 Hz, 30±2 °C, window excluded}	min	2.8E+08 cmVHz/W
	typ	3.3E+08 cmVHz/W
Responsivity ratio {100 Hz / 1 kHz}	max	11.5
Offset voltage {opt. Drain current = 10 ... 100 µA}	nom	0.4 ... 1.5 V
Drain source voltage	max	18 V
Operating / Storage temperature	nom	-25 ... +55 °C / -25 ... +70 °C
IR filter/window		KBr (moisture sensitive window)
Field of View	nom	110°

This preliminary datasheet contains information regarding a product InfraTec is considering for production release. Due to this state all data are for information only.

InfraTec reserves the right to change these specifications at any time without notification.