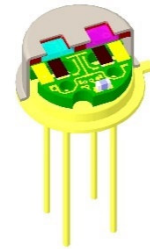


LID-2322-#

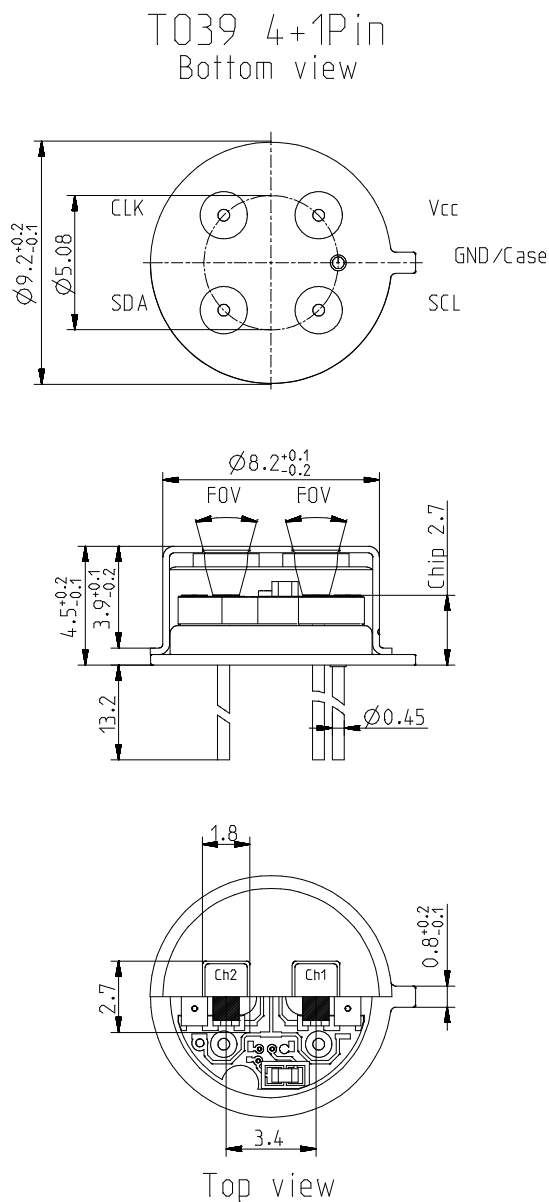
Planar multi channel pyroelectric detector

Description:

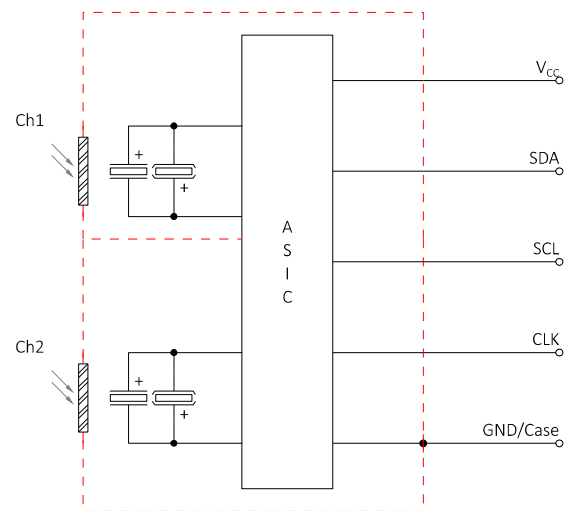
dual channel; TO39 housing; small chip size; thermal compensation; current mode;
I²C digital output; integrated temperature sensor;



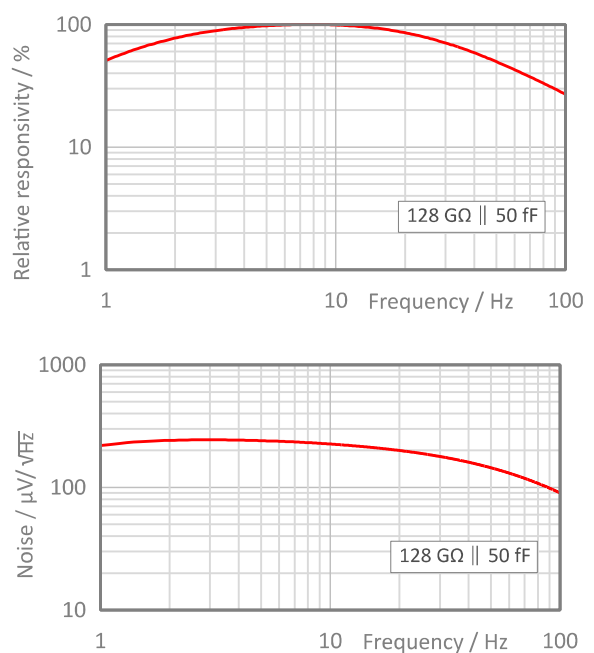
Housing:



Pin Assignment:



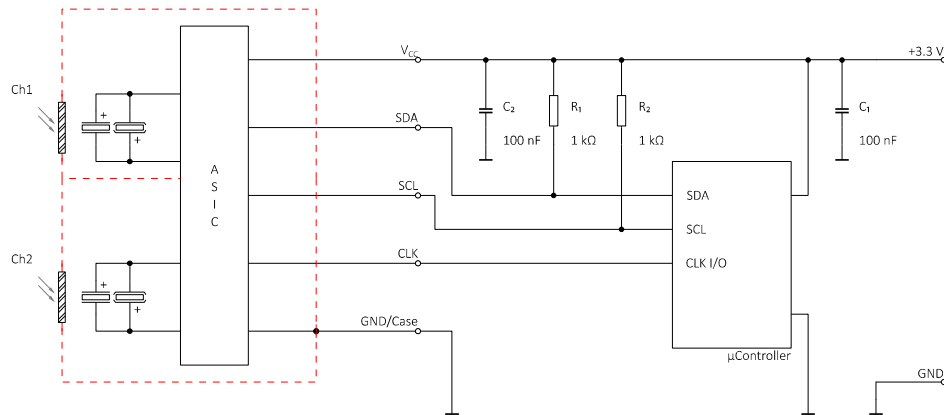
Frequency Response:



LID-2322-#

Planar multi channel pyroelectric detector

Test Circuit:



Parameters:

Aperture size	nom	Ø 6.0 mm, single channel 2.7 × 1.8 mm ²
Element size / type	nom	1.8 × 1.0 mm ² lithium-tantalate with black layer
Thermal time constant	typ	150 ms
Feedback resistor	nom	2...1,024 GΩ (10 Steps)
Feedback capacitor	nom	50...6,400 fF (8 Steps)
Polarity	nom	Negative signal by positive IR flux change
Operating supply voltage V+		+1.8 ... 3.3 V
Supply current (@ 1 kHz & 4 channel active)	nom	200 µA
Operating / Storage temperature	nom	-25 ... +85 °C
IR filter		Combinations of all InfraTec standard narrow band pass filters are available. Customized filters upon request.
Filter sizes	nom	Rectangular filters: (3.50 × 2.50) mm ±0.1 mm Standard thickness: 0.50 mm +0.2/-0.1 mm
Field of View	min	30° (with filter: silicon substrate; 0.5 mm thick)

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