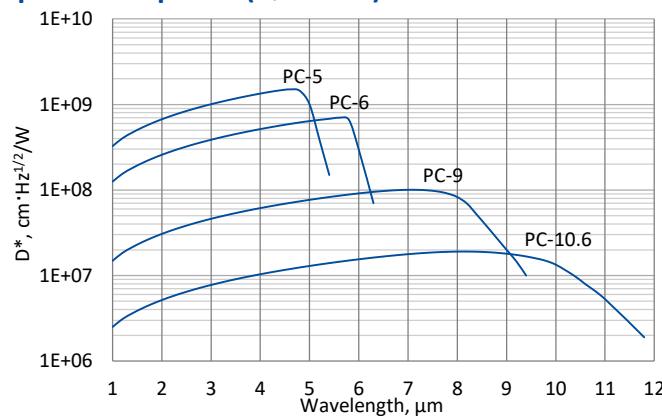


PC series

1.0 – 12.0 μm HgCdTe ambient temperature photoconductive detectors

PC series features uncooled IR photoconductive detectors based on sophisticated HgCdTe heterostructures for the best performance and stability. The devices are optimized for the maximum performance at λ_{opt} . The devices should operate in optimum bias voltage and current readout mode. Performance at low frequencies is reduced due to 1/f noise. The 1/f noise corner frequency increases with the cut-off wavelength.

Spectral response ($T_a = 20^\circ\text{C}$)



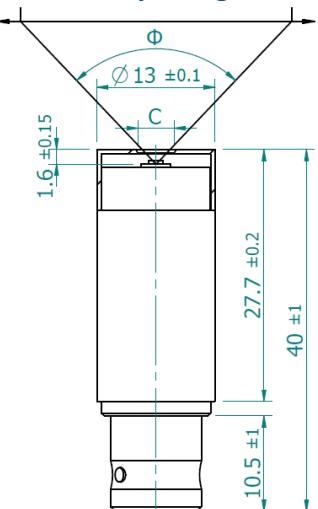
Exemplary spectral detectivity, the spectral response of delivered devices may differ.

Specification ($T_a = 20^\circ\text{C}$)

*) Aperture $C = \emptyset 1$ mm

**) Aperture C = Ø6 mm.

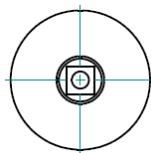
Mechanical layout, mm

BNC package


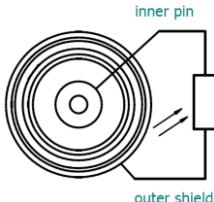
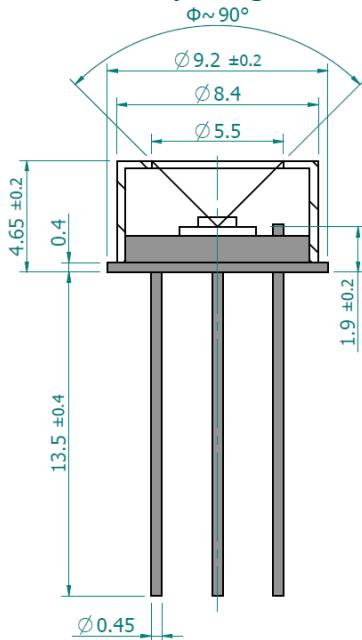
Parameter	Value
Active area, mm×mm	0.05×0.05 – 2×2 3×3 – 4×4
C, mm	Ø4 Ø6
Acceptance angle Φ	~102° ~124°

C – aperture

Top view

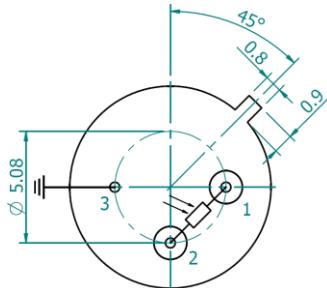


Bottom view


TO39 package


Φ – acceptance angle

Bottom view



Function	Pin number
Detector	1, 2
Chassis ground	3

Dedicated preamplifier



small SIP-T039