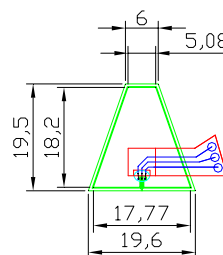


## PIPS specification sheet

Series CD

**Model:**

**CD-PIN D-300CB/C**



PIN D

Detector active area:	208	mm
Chip dimensions:	19.5*19.6-6	mm (trapezium)
Number of pixels:	1	
Guard:	yes	
Mount:	Capton read-out	Supplied by customer
Chip thickness:	300 +/- 15	µm
Depletion depth (min./max.):	285 / 315	µm
Junction window thickness:	< 1500	nm
Ohmic window thickness: without ARC	< 150	nm
ARC (Ta <sub>3</sub> O <sub>5</sub> )	67	nm
Pixel capacitance (max.):	85	pF
Operating temperature:	-25/+50	°C
Storage temperature:	-70/+100	°C

### Estimated detector performance:

	<i>typ.</i>	<i>max.</i>	
Operating voltage:	50	120	Volts
Reverse current at 20°C:		40	nA

- Standard tests are performed following IEEE Standard Test Procedures for Semiconductor Charged Particle Detectors No IEEE Std 300-1988.