

## Pad PIPS specification sheet

series PF

### *Model:*

***PF-192CD-46\*10-500CB***

Detector active area:	46.1*10	mm
Chip dimensions:	48*12	mm
Mount:	Ceramic board	
Ceramic board dimensions:	60*85	mm
Connector:	SAMTEC/ FTSH-125-04-L-DV	supplied by customer
Number of Pads:	192	
Pad pitch:	0.240	mm
Pad length:	10	mm
Chip thickness:	500	µm
Depletion depth (min./max.):	485 /515	µm
Contact to junction:	wire bonding	
Contact to ohmic side:	wire bonding	
Junction window thickness:	< 1500	nm
Ohmic window thickness:	< 1500	nm
Pad capacitance (typ.):	1.5	pF

### Estimated detector performance:

	<i>typ.</i>	<i>max.</i>	
Operating voltage:	80	150	Volts
Reverse current per pad at 20°C:	< 1	10	nA
Number of non functional strips:	0	2	
Total current on detector at 20°C:	80	200	nA
Electronic noise per pad at 20°C	4	6	keV

- Standard tests are performed following IEEE Standard Test Procedures for Semiconductor Charged Particle Detectors No IEEE Std 300-1988.
- The electronic noise is approximated with a pulser resolution.