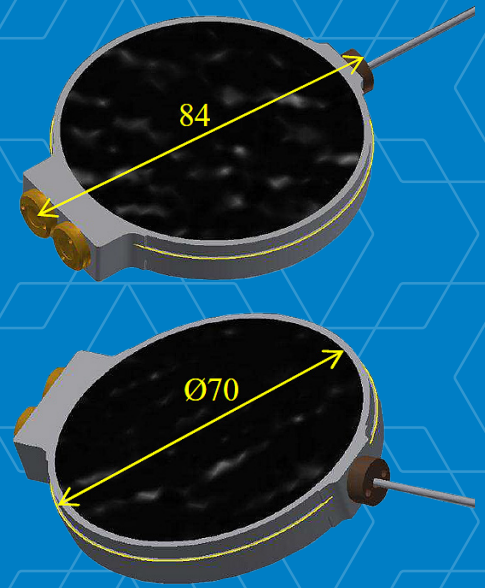




PHYSICS RESEARCH

PIPSBOX- 2x1200-500ATM

Series CD



MODEL: PIPSBOX-2x1200 500A	
Assembly	2 detectors mounted in a low background housing covered by a carbon window
Total Dimensions (L x W x H)	84 x 70 x 12 Mm
Active Volume Between Two Detectors	10.6 cm
Connectors in Assembly	LEMO EWV.00.250.NTLPV
Fitting Connectors	LEMO FFA.00.250.CTAC22
Tubing	Inox 316L – id: 0.75 mm – od: 1.59 mm
Vacuum Tightness (leak rate)	10E-10 mbar.l/s
Contact to Junction	Wire bonding
Active Area	2 x 1200 mm
Detector Model	2 x PD1200-26-500
Chip Thickness	2 x 500 µm
Depletion Depth (min./max.)	475 / 515 µm
Junction Window Thickness	<50 nm
Ohmic Window Thickness	<1500 nm
Operating Temperature	-20/+40 °C
Storage Temperature	-20/+100 °C
Capacitance (typ.)	294 pF

ESTIMATED DETECTOR PERFORMANCE	
Operating Voltage	Minimum: 100 Volts Maximum: 150 Volts
Total Current at 20 °C (per detector)	Maximum: 50
Electronic Resolution (per detector)	Maximum: 12 keV at 2 µs shaping time

- 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.
- Product manufactured using CEA technology.