

## Functional specifications for PXIE LEBT DCCT

The DCCT is a part of the PXIE LEBT diagnostics system. It measures the average current of the 30 keV H- beam delivered to RFQ. This version of specifications refers to so-called 3-solenoid design.

Nominal average current	5 mA
Maximum average current	10 mA
Beam time structure	
Nominal operation	DC
Pulse mode	(1- 60) Hz X (1 – 1000) $\mu$ s
Chopping	1 MHz X (200 – 800) ns
Resolution	< 10 $\mu$ A (rms)
Bandwidth	DC to 4 kHz
Minimum ID of the vacuum chamber	45 mm
Full available length	15 cm
Total neutron flux before failure	TBD