

[2-4-7] Ion Chamber for Beam (ICB)

* Design

ICB is a multi-layer ion chamber, and placed upstream of the target. It is used to measure the charge of incident secondary beams.

electrodes	12 μ m-thick Al-Mylar , 10 anode & 11 cathode planes
Anode-cathode gap	21mm
window	16 μ m-thick Aramid
effective area	140mm x 140mm x 420mm (deep)
gas	P10 @1atm
HV	anode(+)
readout	10ch, preamp (Mesyttec-MPR16 with 10 μ s decay time), shaping amp (MSCF-16LE, active BLR, unipolar output, 0.25 μ s shaping time), and peak sensitive ADC (MADC32)

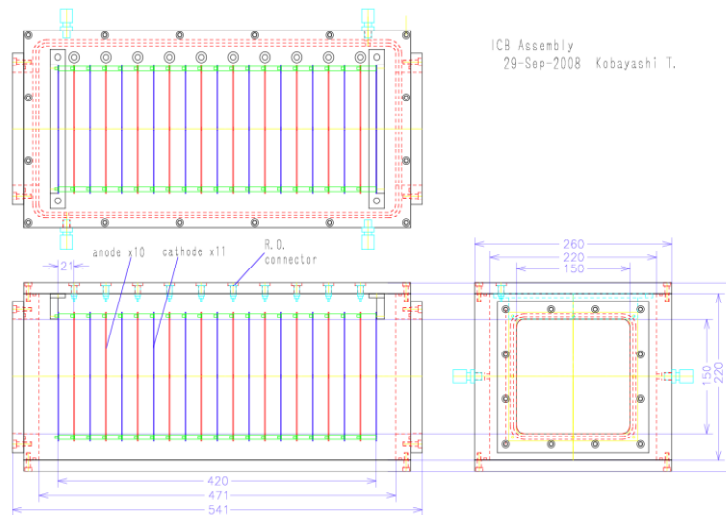


Fig 2-4-7: ICB assembly