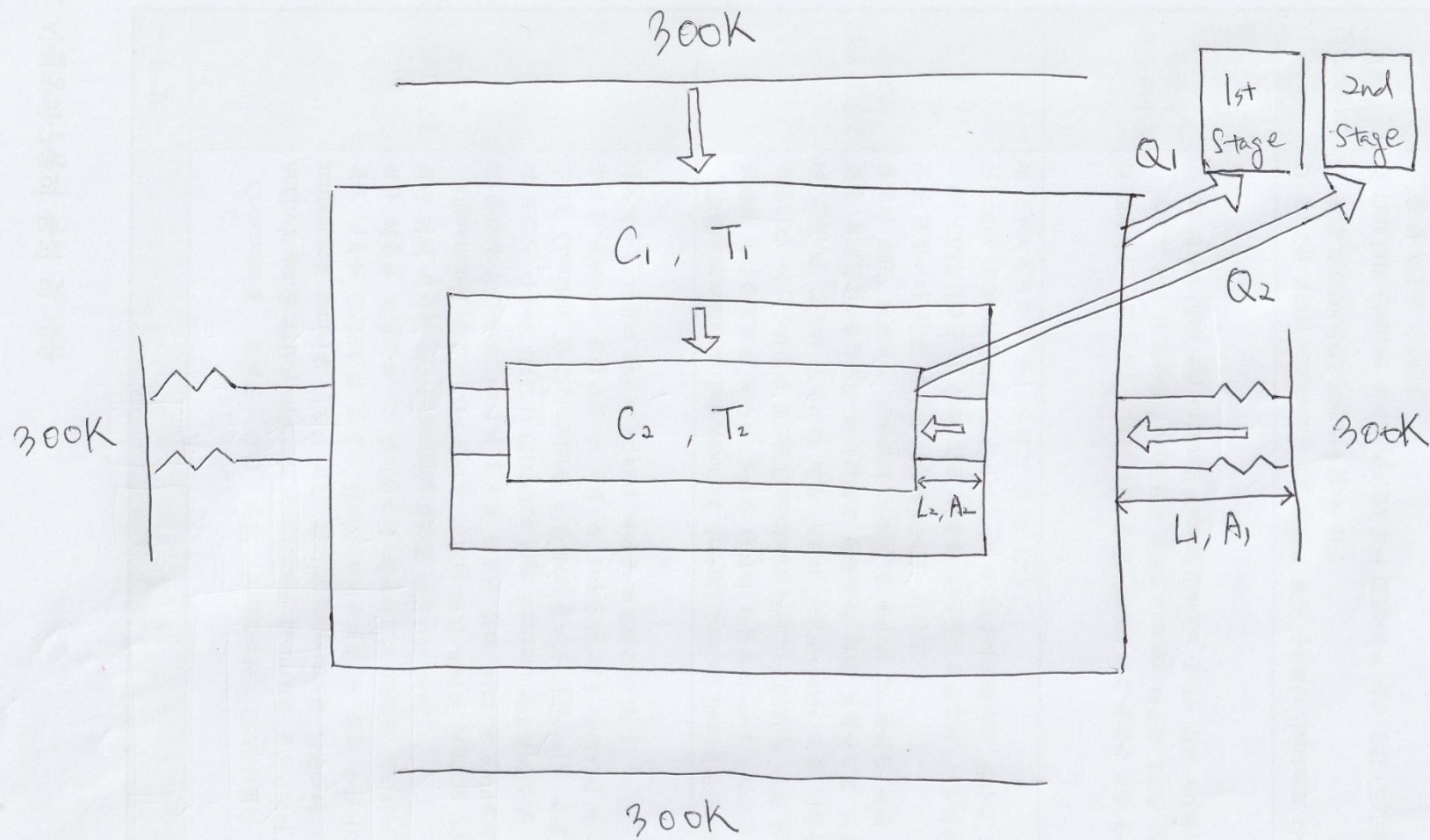


GBAR Trap Meeting

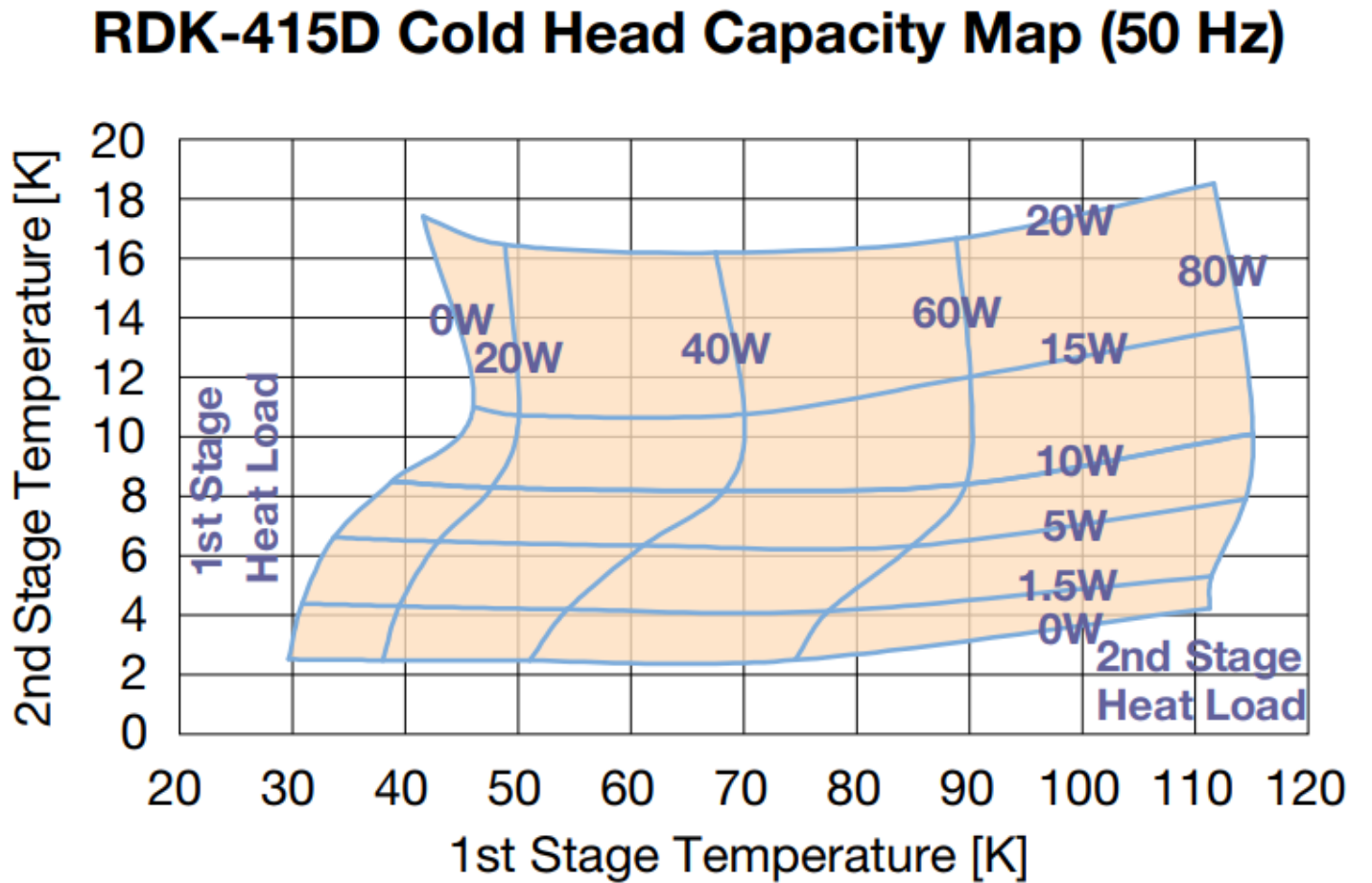
Seoul National University

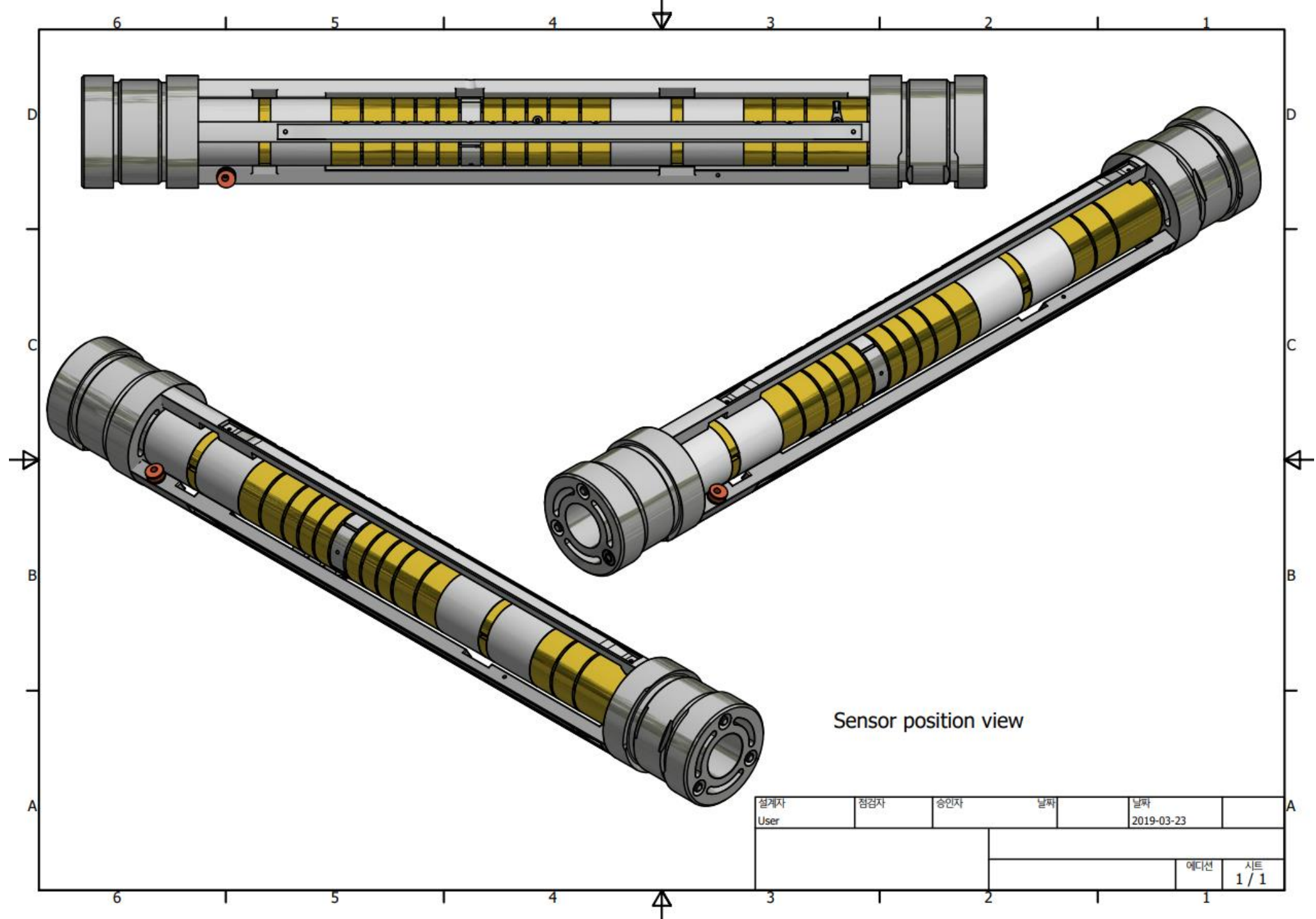
25.Mar.2019



Cu Cylinder Length

- Cooling Simulation

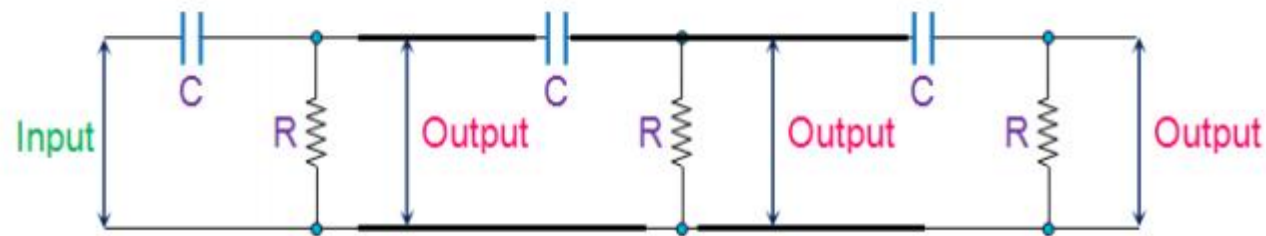
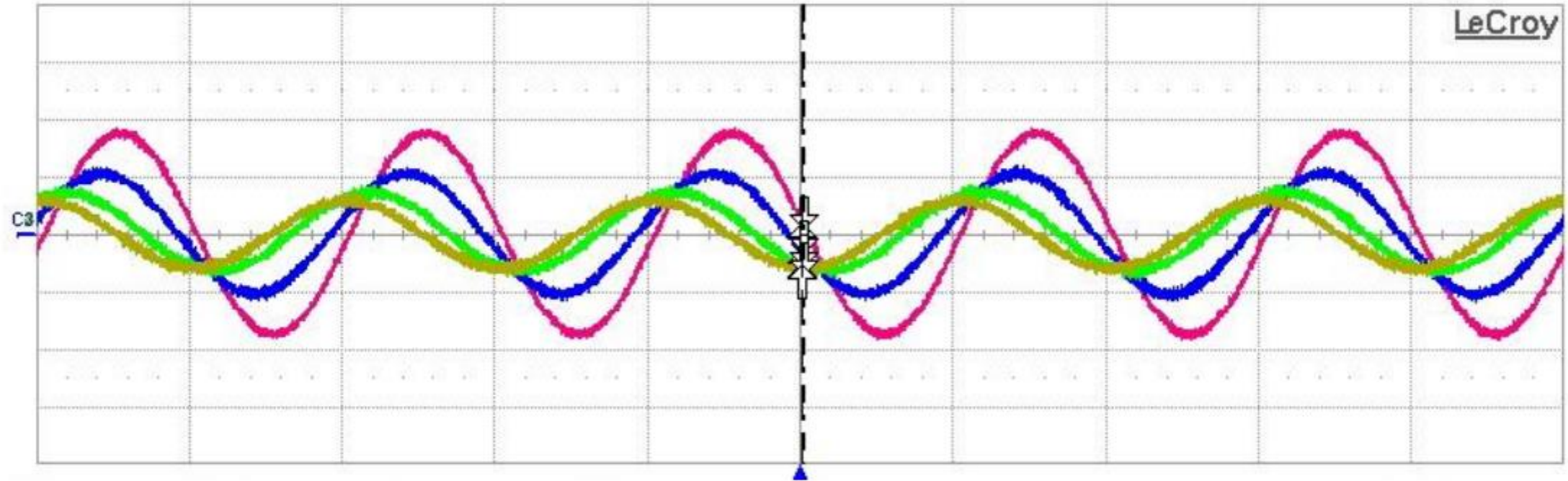




Schedule 2019.03 ~

구 분	실 시 예 정 항 목	비 고
3 ~ 4월	- H/V Switch control box 제작(AI) Dimension 306 x 250 x 80mm(L x D x H)	HTS61-05(BEHLKE 제품)
4 ~ 5월	- Amplifier제작(AI) Main case box 2[ea], ≍ Dimension 480 x 200 x 132mm(L x D x H) Module case 20ch(3U), ≍ Dimension 42 x 180 x 126mm(L x D x H)	3U size 공급전원 +/- 160V 250[mA] +/- 15V 750[mA] op-amp chip PA441DW(Aipex)
4월	- MRE	
4 ~ 6월	temprature sensor position M2 tap 가공	
6 월	Heat conduction wire 작업(Aln plate, ceramic bushing 결합)	주)한울
	- UHV pipe & MRE wire결선.	UHV pipe assembly

Phase shift



$$\theta = \tan^{-1} \frac{1}{2\pi fRC}$$

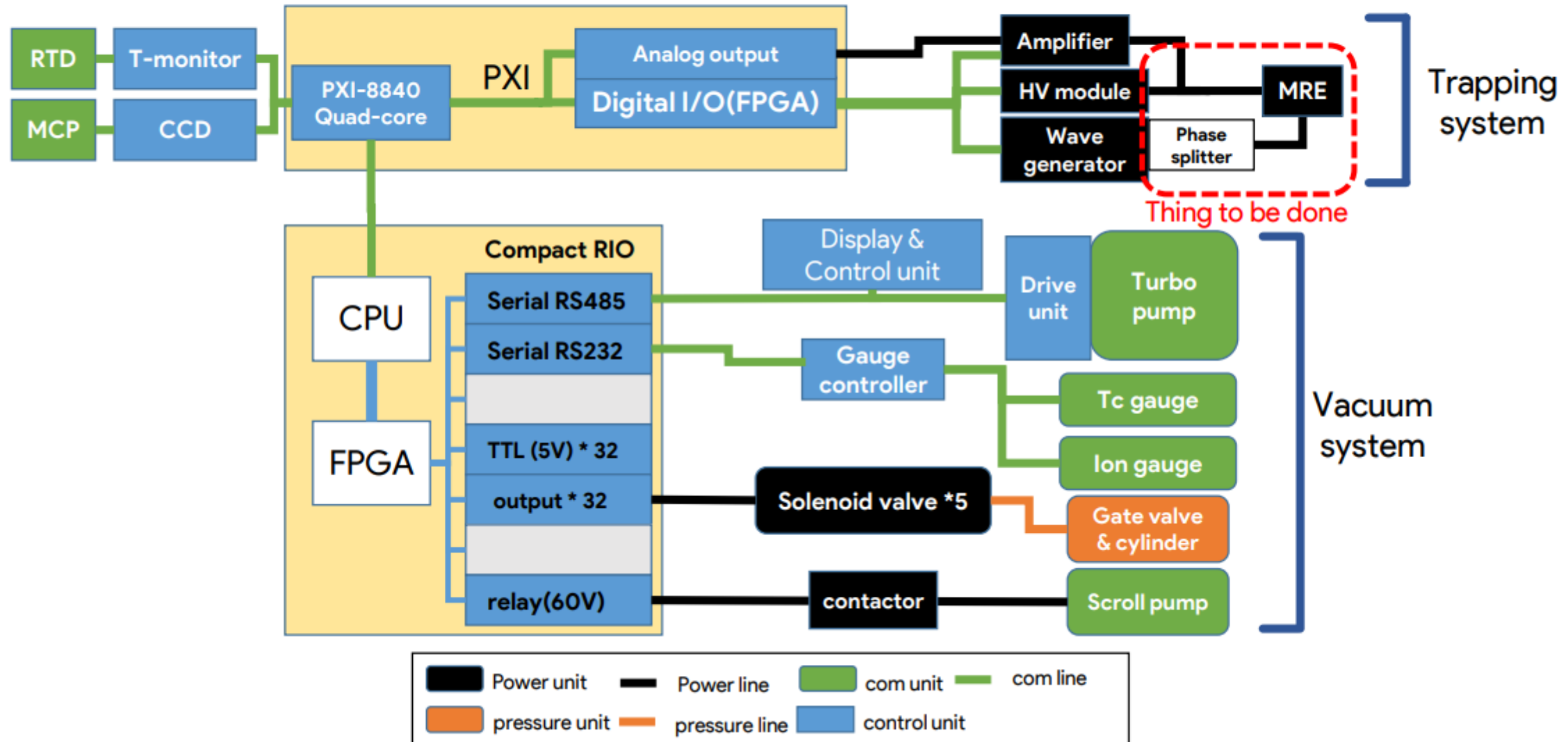
$$f = 500 \text{ kHz}$$

$$C = 10 \text{ nF}$$

$$R = 50 \text{ Ohm}$$

$$\rightarrow \theta = \tan^{-1} \frac{2}{\pi} \approx 32.5^\circ$$

Control system of the trap



Thank You!