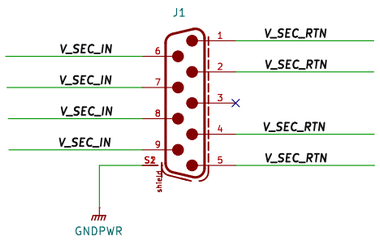
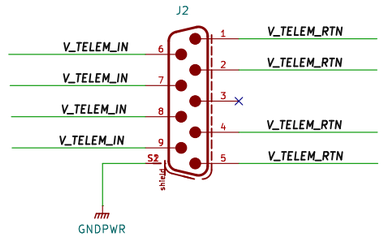
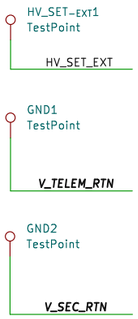
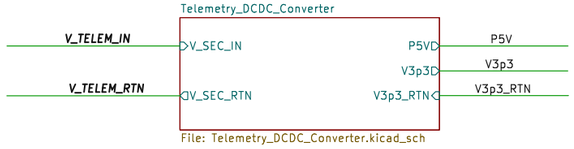
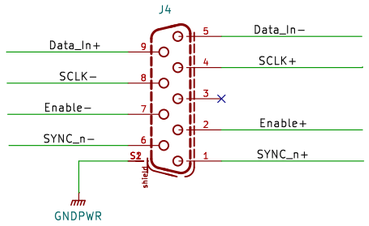
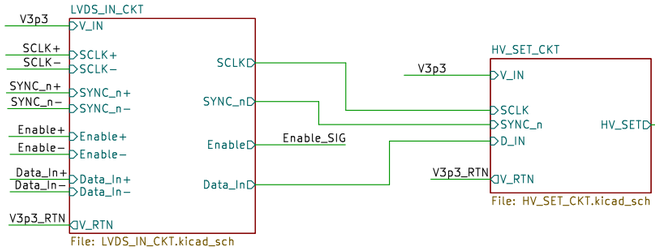


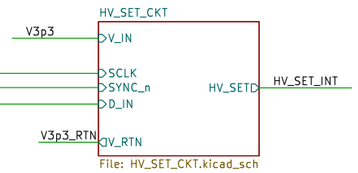


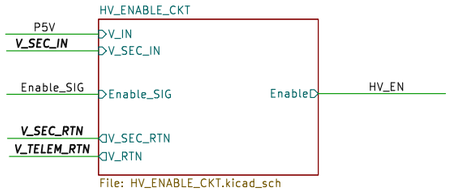


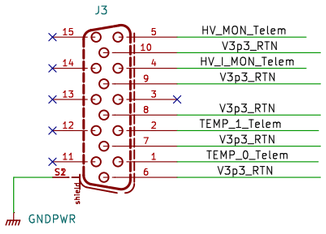


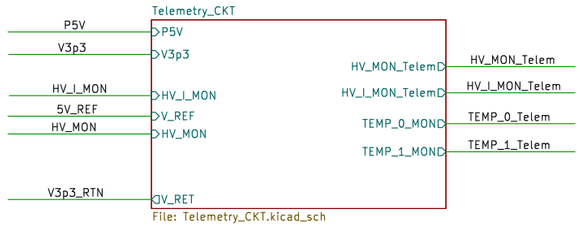


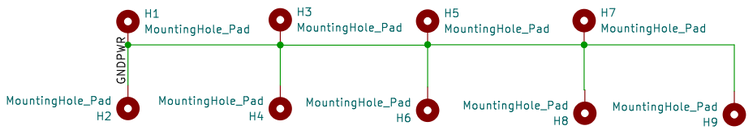








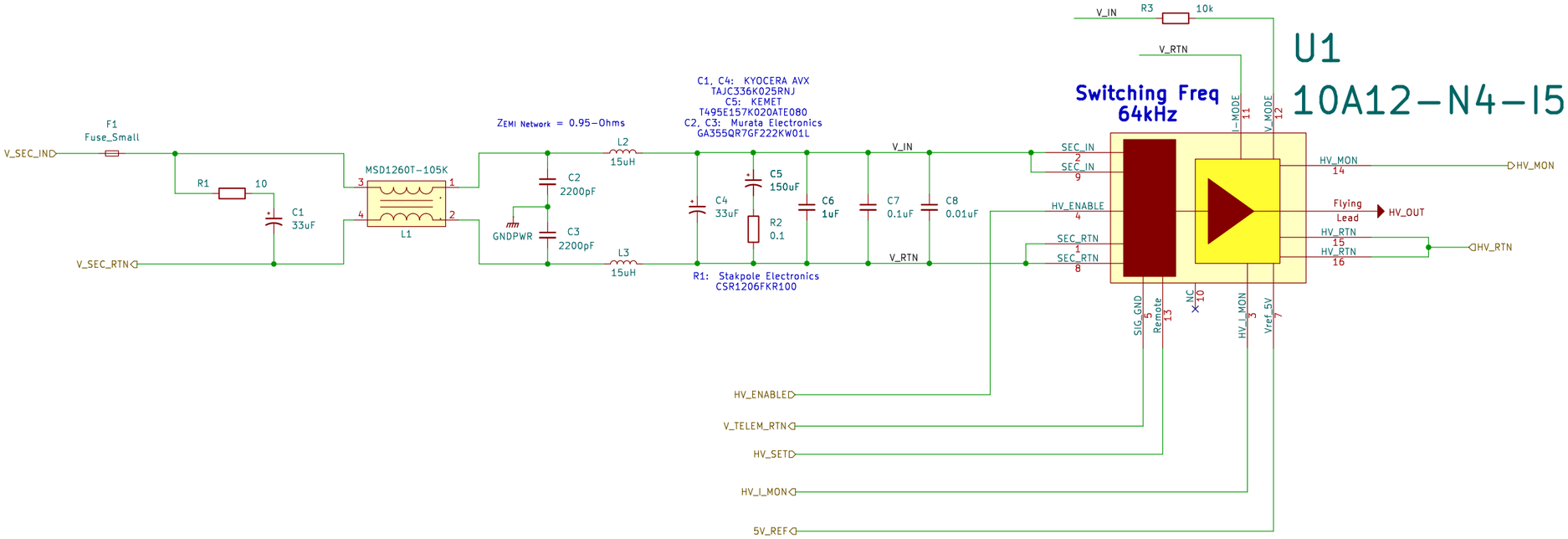




Sheet: /
File: TPC_COLD_HV_PDU.kicad_sch

Title:

Size: A3	Date:	**Rev:**
KiCad E.D.A. 8.0.6		Id: 1/7



NOTES:

1 – Enable Pin: Must apply 2.4V < V_{EN} < V_{IN} to enable

- There is a 10k resistor to GND internally from the enable pin. Floating this pin will disable the converter.
- To disable, apply 0 to 800mV to enable pin, or OPEN circuit.

2 – Current monitor: Scale factor from 0 to 5V maps 0 to 100% of rated current.

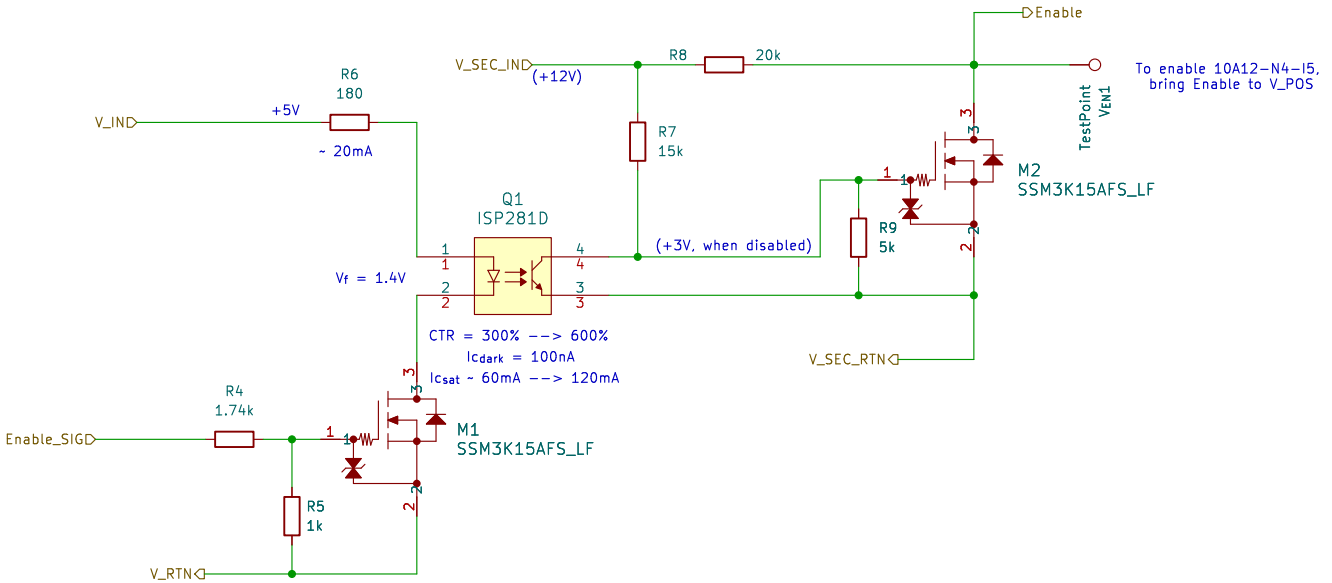
- Max current for this converter is 400uA

3 – Voltage monitor is same scale as HV_Set Scale. 0 ––> 5V sets 0 to –10kV.

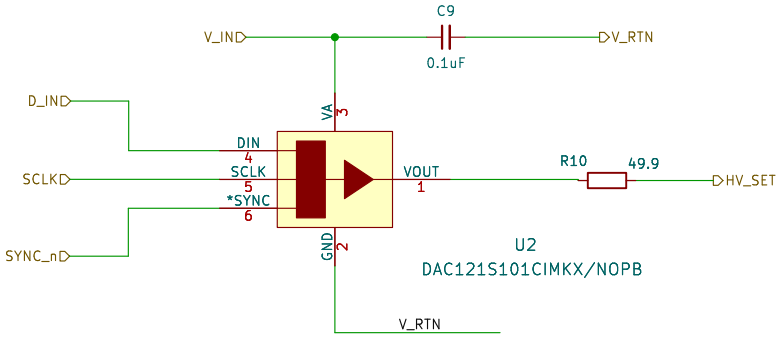
4 – SIG_GND and HV_RTN are kept isolated from each other.

5 – 5V REF is referenced to V_TELEM_RTN

Sheet: /Main_DCDC_Converter/		
File: Main_DCDC_Converter.kicad_sch		
Title:		
Size: A3	Date:	**Rev:**
KiCad E.D.A. 8.0.6		Id: 2/7



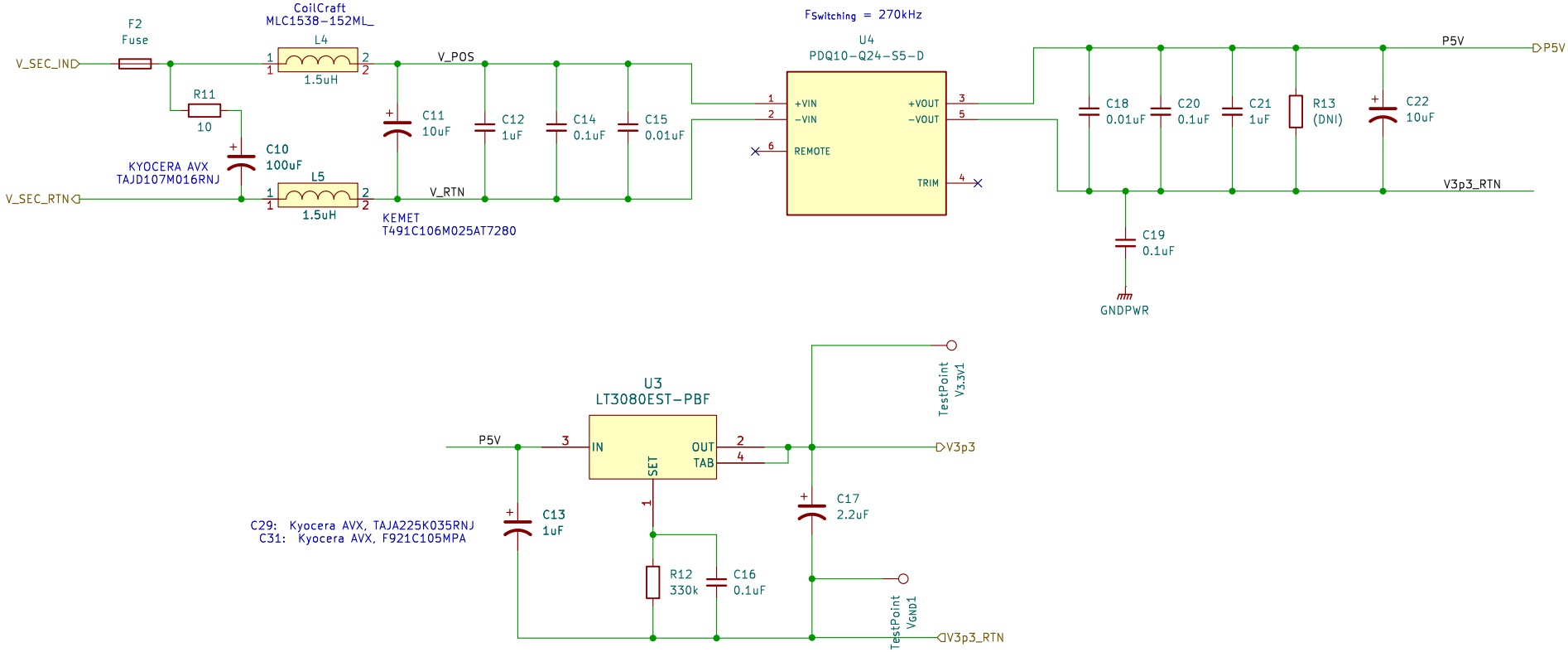
Sheet: /HV_ENABLE_CKT/		
File: HV_ENABLE_CKT.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. 8.0.6		Id: 3/7



Sheet: /HV_SET_CKT/
File: HV_SET_CKT.kicad_sch

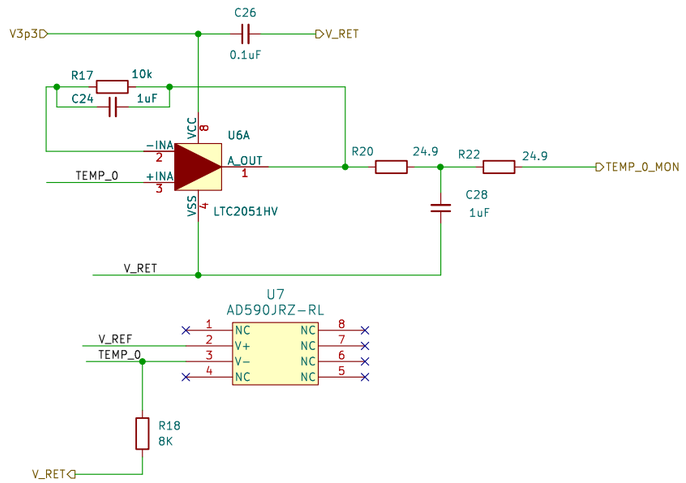
Title:

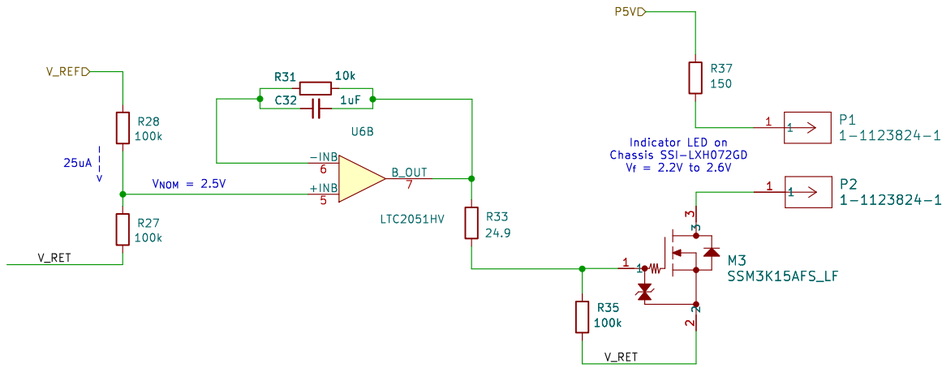
Size: A4	Date:	**Rev:**
KiCad E.D.A. 8.0.6		Id: 4/7

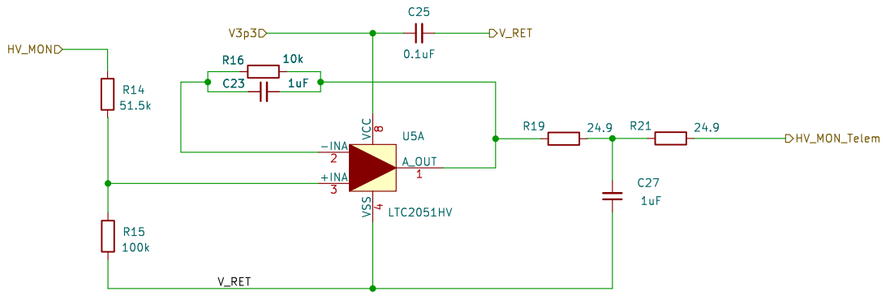


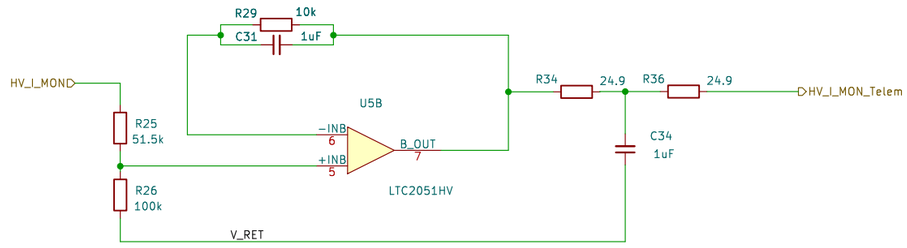
C29: Kyocera AVX, TAJA225K035RNJ
C31: Kyocera AVX, F921C105MPA

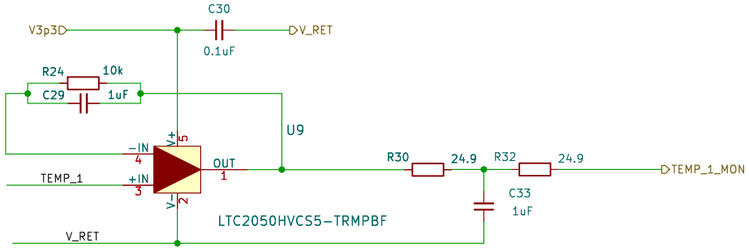
Sheet: /Telemetry_DCDC_Converter/		
File: Telemetry_DCDC_Converter.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. 8.0.6		Id: 5/7

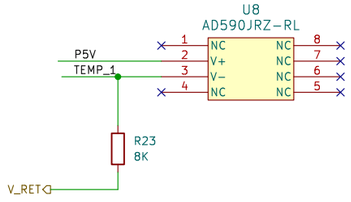




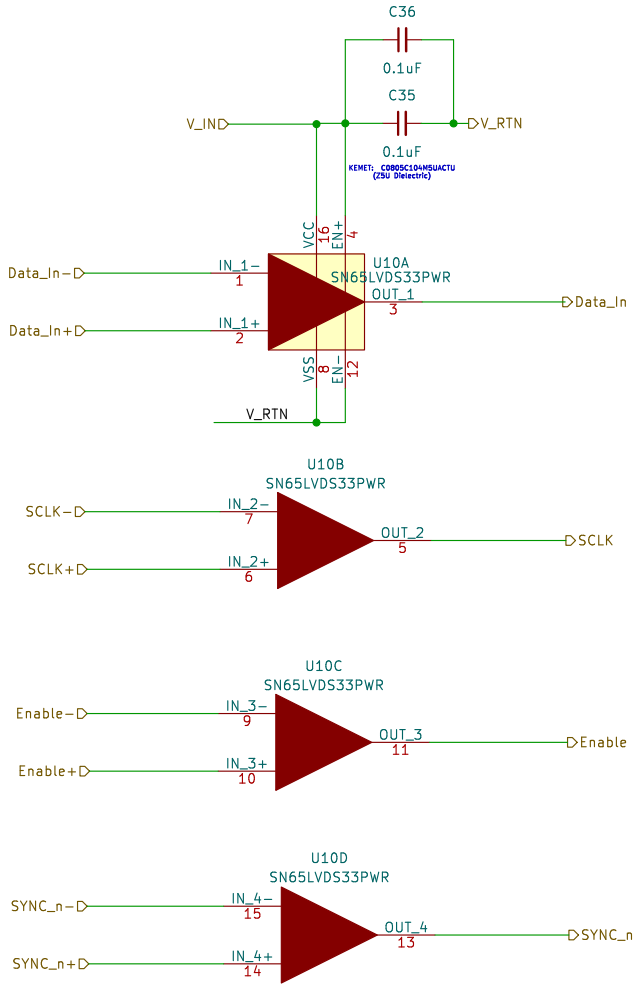








Sheet: /Telemetry_CKT/		
File: Telemetry_CKT.kicad_sch		
Title:		
Size: A3	Date:	**Rev:**
KiCad E.D.A. 8.0.6		Id: 6/7



Sheet: /LVDS_IN_CKT/		
File: LVDS_IN_CKT.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. 8.0.6		Id: 7/7