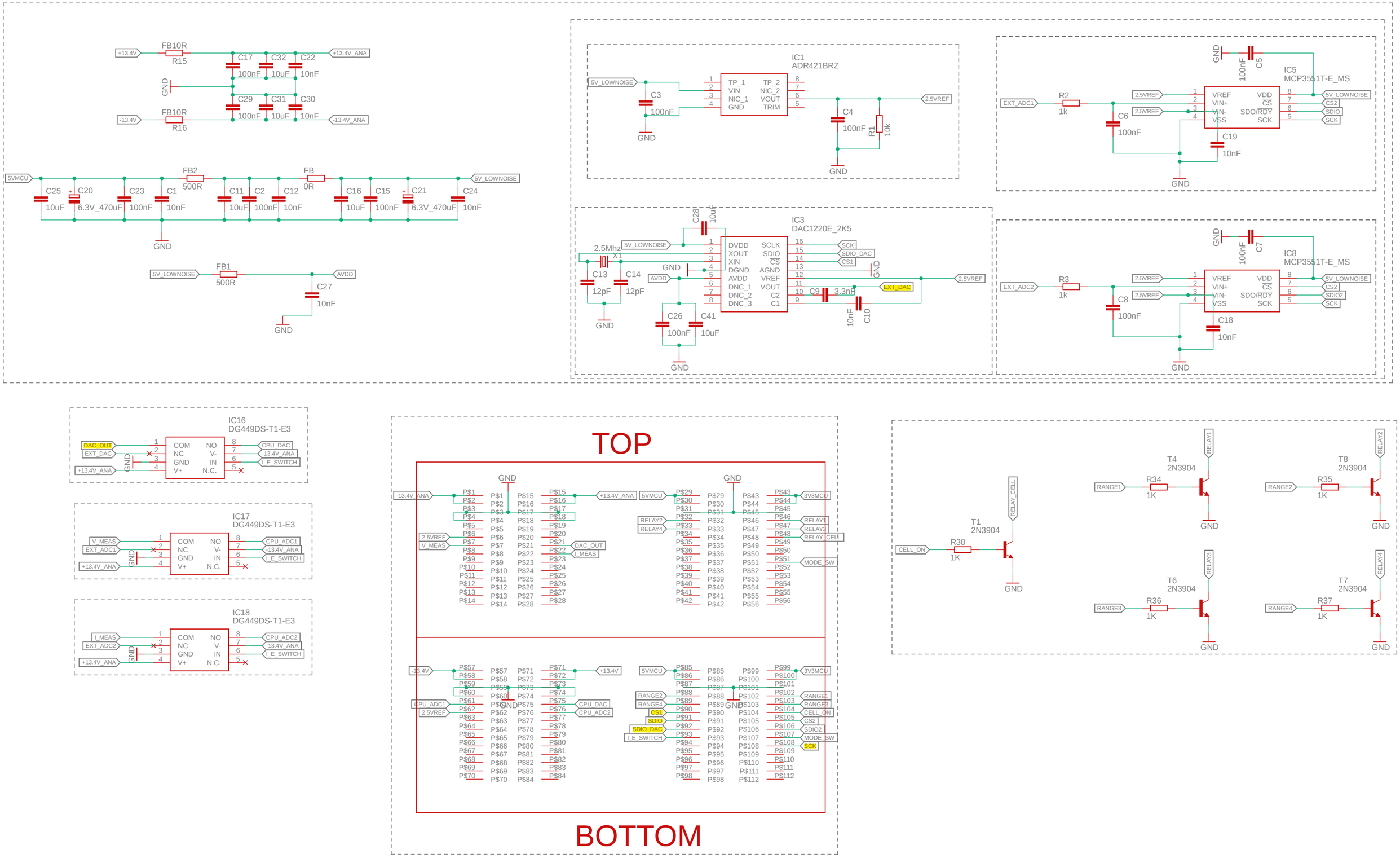
+13.4V
FB10R
R15
C17
100nF
C32
10uF
C22
10nF
+13.4V_ANA
GND
C29
100nF
C31
10uF
C30
10nF
-13.4V
FB10R
R16
-13.4V_ANA
5VMCU
C25
10uF
C20
6.3V_470uF
C23
100nF
C1
10nF
FB2
500R
C11
10uF
C2
100nF
C12
10nF
FB
0R
C16
10uF
C15
100nF
C21
6.3V_470uF
C24
10nF
5V_LOWNOISE
GND
5V_LOWNOISE
FB1
500R
AVDD
C27
10nF
GND
IC1
ADR421BRZ
5V_LOWNOISE
C3
100nF
TP_1
VIN
NIC_1
GND
TP_2
NIC_2
VOUT
TRIM
C4
100nF
R1
10k
2.5VREF
GND
GND
C5
100nF
IC5
MCP3551T-E_MS
EXT_ADC1
R2
1k
2.5VREF
2.5VREF
C6
100nF
VREF
VIN+
VIN-
VSS
VDD
CS
SDO/RDY
SCK
5V_LOWNOISE
CS2
SDIO
SCK
C19
10nF
GND
C28
10uF
IC3
DAC1220E_2K5
2.5Mhz
X1
5V_LOWNOISE
C13
12pF
C14
12pF
GND
AVDD
DVDD
XOUT
XIN
DGND
AVDD
DNC_1
DNC_2
DNC_3
SCLK
SDIO
CS
AGND
VREF
VOUT
C2
C1
SCK
SDIO_DAC
CS1
GND
EXT_DAC
2.5VREF
C9
3.3nF
10nF
C10
C26
100nF
C41
10uF
GND
GND
C7
100nF
IC8
MCP3551T-E_MS
EXT_ADC2
R3
1k
2.5VREF
2.5VREF
C8
100nF
VREF
VIN+
VIN-
VSS
VDD
CS
SDO/RDY
SCK
5V_LOWNOISE
CS2
SDIO2
SCK
C18
10nF
GND
IC16
DG449DS-T1-E3
DAC_OUT
EXT_DAC
+13.4V_ANA
GND
COM
NC
GND
V+
NO
V-
IN
N.C.
CPU_DAC
-13.4V_ANA
I_E_SWITCH
IC17
DG449DS-T1-E3
V_MEAS
EXT_ADC1
+13.4V_ANA
GND
CPU_ADC1
-13.4V_ANA
I_E_SWITCH
IC18
DG449DS-T1-E3
I_MEAS
EXT_ADC2
+13.4V_ANA
GND
CPU_ADC2
-13.4V_ANA
I_E_SWITCH
TOP
GND
-13.4V_ANA
+13.4V_ANA
2.5VREF
V_MEAS
DAC_OUT
I_MEAS
5VMCU
3V3MCU
RELAY2
RELAY4
RELAY1
RELAY3
RELAY_CELL
MODE_SW
-13.4V
+13.4V
CPU_ADC1
2.5VREF
CPU_DAC
CPU_ADC2
RANGE2
RANGE4
CS1
SDIO
SDIO_DAC
I_E_SWITCH
RANGE1
RANGE3
CELL_ON
CS2
SDIO2
SCK
BOTTOM
RELAY1
T4
2N3904
RANGE1
R34
1K
GND
RELAY2
T8
2N3904
RANGE2
R35
1K
GND
RELAY_CELL
T1
2N3904
CELL_ON
R38
1K
GND
RELAY3
T6
2N3904
RANGE3
R36
1K
GND
RELAY4
T7
2N3904
RANGE4
R37
1K
GND