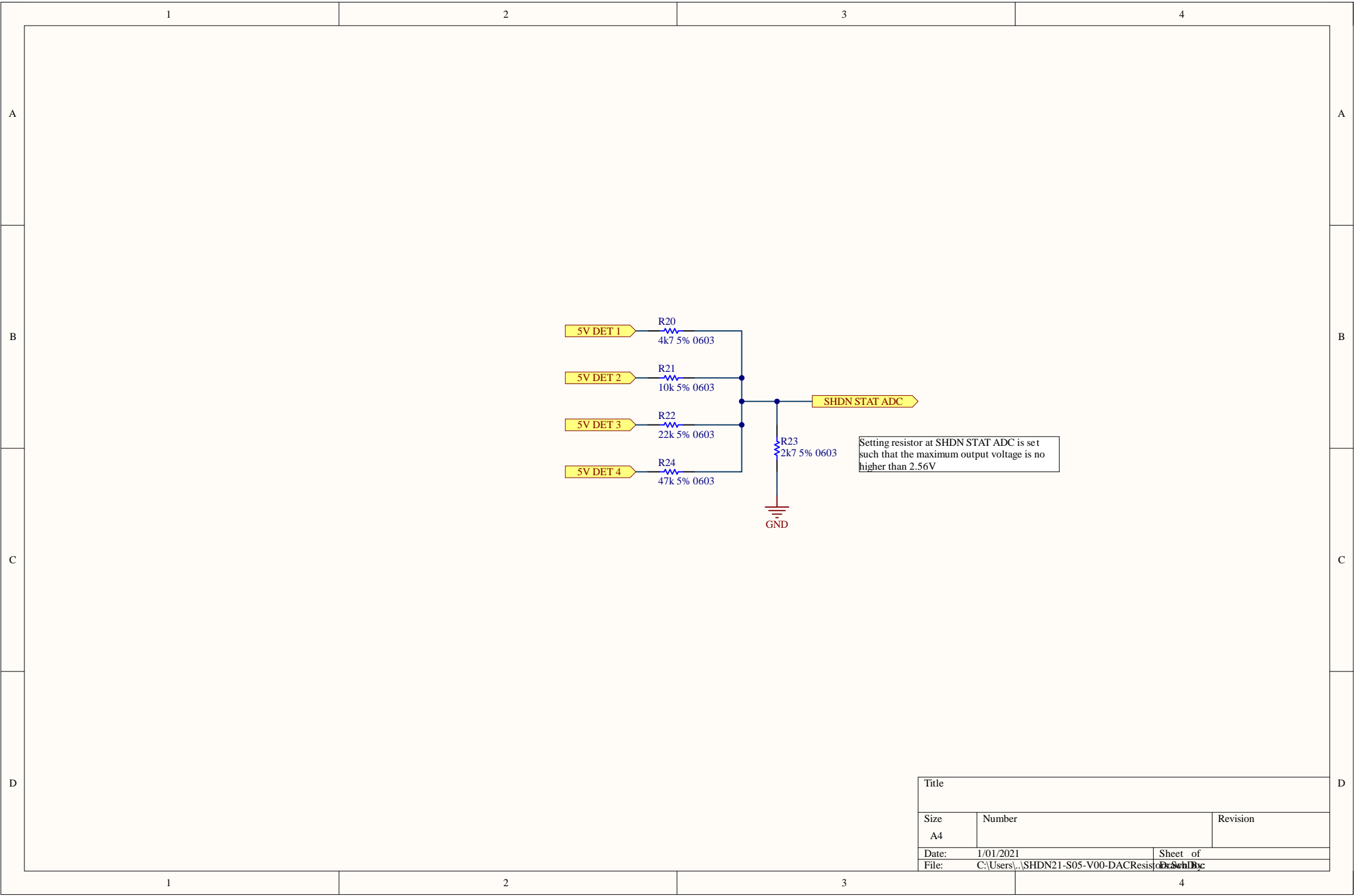


- 12V chain on PCB pins closer to the edge of the PCB, avoiding complex routing

- Yellow wiring to represent shutdown chain

- Status indicator LEDs from 12V. Use RED leds to limit voltage. Series with resistors

Title		
Size	Number	Revision
A4		
Date:	1/01/2021	Sheet of
File:	C:\Users\...\SHDN21-S04-V00-ShutdownSystem.schDoc	



Comment	Description	Designator	Footprint	LibRef	Quantity
4u7 50V 5%	Capacitor, Ceramic, SMD, 4u7, 50V, 5%, X7R, 0603	C1	Cap_Ceramic_0603	4u7 50V 5% X7R 0603	1
470nF 50V 5%	Capacitor, Ceramic, SMD, 470nF, 50V, 5%, X7R, 0603	C2	Cap_Ceramic_0603	470nF 50V 5% X7R 0603	1
100nF 50V 5% 0603	Capacitor, Ceramic, SMD, 100nF, 50V, 5%, X7R, 0603	C3	Cap_Ceramic_0603	100nF 50V 5% X7R 0603	1
1uF 25V 5% 0603	Capacitor, Ceramic, SMD, 1uF, 25V, 5%, X7R, 0603	C4	Cap_Ceramic_0603	1uF 25V 5% X7R 0603	1
1N4448WQ-7-F	Diode, SMD, 75V, 5%, 250mA, SOD123	D1	SMA	1N4448WQ-7-F	1
BZG05C22-M	Zener Diodes Uni- direc 40W Pppm SMA (DO-214AC)	D?		BZG05C22-M	1
LED Red 0603	LED Red 0603	DS1, DS2, DS7_SDP1, DS7_SDP2, DS7_SDP3, DS7_SDP4, DS7_SDP5, DS8_SDP1, DS8_SDP2, DS8_SDP3, DS8_SDP4, DS8_SDP5, DS9_SDP1, DS9_SDP2, DS9_SDP3, DS9_SDP4, DS9_SDP5	LED RED 0603	LED Red 0603	17
LED Green 0603	LED Green 0603	DS3, DS4, DS5, DS6	LED GREEN 0603	LED Green 0603	4
MX120G	MX120G with standard connector layout	J1, J3, J4, J5_SDP1, J5_SDP2, J5_SDP3, J5_SDP4, J5_SDP5, J?		MX120G	9
LY4-0-DC12	RELAY GEN PURPOSE 4PDT 10A 12V Through-hole	K1		LY4-0-DC12	1
2N7002K	N-Channel 60V 300mA (Ta) 350mW (Ta) Surface Mount SOT- 23 (TO-236AB)	Q1	SOT-23-3	2N7002K	1
4k7 5% 0603	Resistor, SMD, 4k7, 0.1W, 5%, 0603	R1, R2, R3, R6, R11, R12, R13, R14, R20_DAC1, R20_DAC2, R20_DAC3, R20_DAC4	Res_ThinFilm_0603	4k7 5% 0603	12
2M2 1%	Resistor, SMD, 2M2, 0.125W, 1%, 0603	R4, R5	Res_ThinFilm_0603	2M2 1% 0603	2
2k7 5% 0603	Resistor, SMD, 2k7, 0.1W, 5%, 0603	R7, R23_DAC1, R23_DAC2, R23_DAC3, R23_DAC4	Res_ThinFilm_0603	2k7 5% 0603	5
150k 5% 0603	Resistor, SMD, 150k, 0.1W, 5%, 0603	R8	Res_ThinFilm_0603	150k 5%, 0603	1
390k 5%	Resistor, SMD, 390k, 0.1W, 5%, 0603	R9	Res_ThinFilm_0603	390k 5% 0603	1
240k 5%	Resistor, SMD, 240k, 0.1W, 5%, 0603	R10	Res_ThinFilm_0603	240k 5% 0603	1
2M2 1% 0603	Resistor, SMD, 2M2, 0.125W, 1%, 0603	R15	Res_ThinFilm_0603	2M2 1% 0603	1
100R 5% 0603	Resistor, SMD, 100R, 0.1W, 5%, 0603	R16	Res_ThinFilm_0603	100R 5%, 0603	1
470R 5% 0603	Resistor, SMD, 470R, 0.1W, 5%, 0603	R17_SDP1, R17_SDP2, R17_SDP3, R17_SDP4, R17_SDP5, R18_SDP1, R18_SDP2, R18_SDP3, R18_SDP4, R18_SDP5, R19_SDP1, R19_SDP2, R19_SDP3, R19_SDP4, R19_SDP5	Res_ThinFilm_0603	470R 5% 0603	15
10k 5% 0603	Resistor, SMD, 10k, 0.1W, 5%, 0603	R21_DAC1, R21_DAC2, R21_DAC3, R21_DAC4	Res_ThinFilm_0603	10k 5% 0603	4
22k 5% 0603	Resistor, SMD, 22k, 0.1W, 5%, 0603	R22_DAC1, R22_DAC2, R22_DAC3, R22_DAC4	Res_ThinFilm_0603	22k 5% 0603	4
47k 5% 0603	Resistor, SMD, 47k, 0.1W, 5%, 0603	R24_DAC1, R24_DAC2, R24_DAC3, R24_DAC4	Res_ThinFilm_0603	47k 5% 0603	4
MAX17612A		U1		MAX17612A	1
BU45584G2	IC INVERTER SCHMITT 1CH 5SSOP	U2		BU45584G2	1