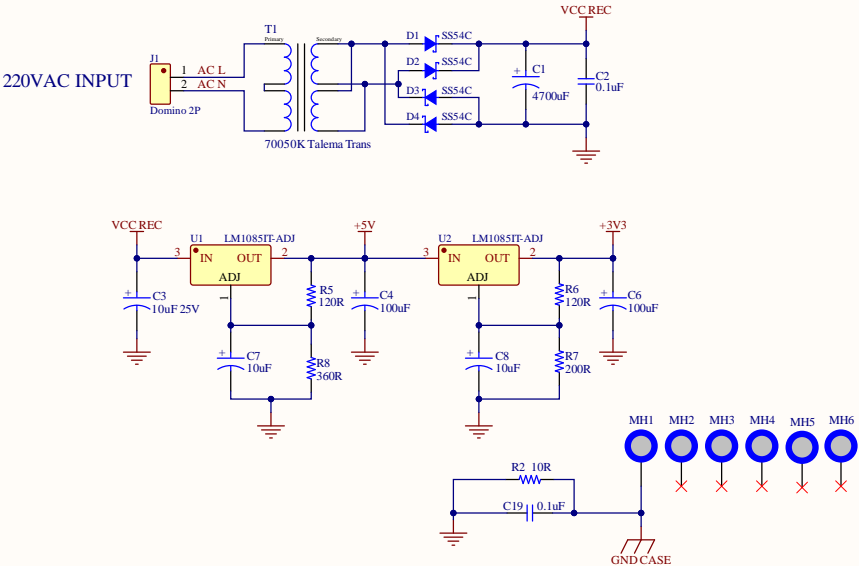
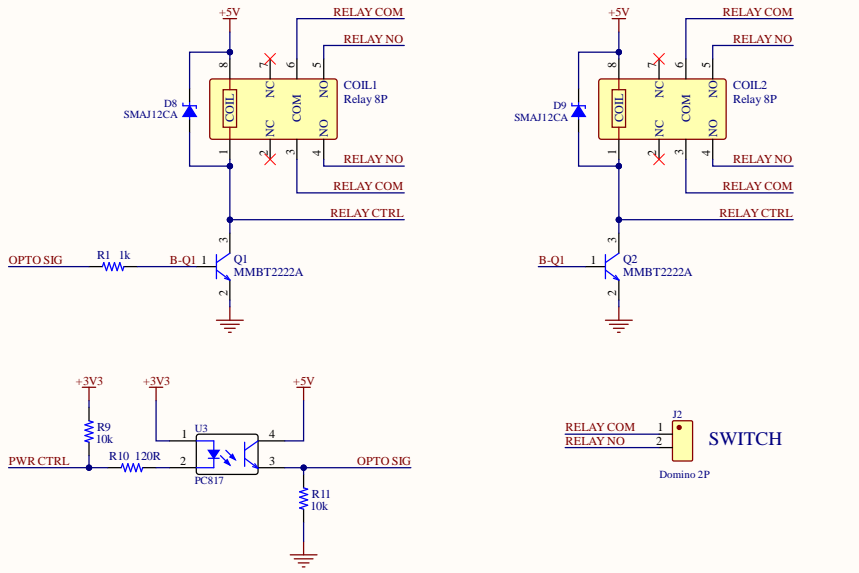


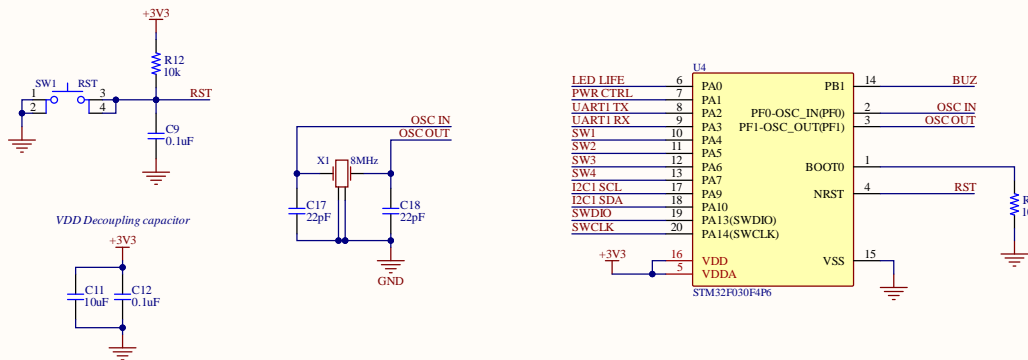
POWER SUPPLY



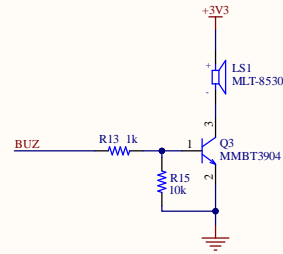
POWER CONTROL



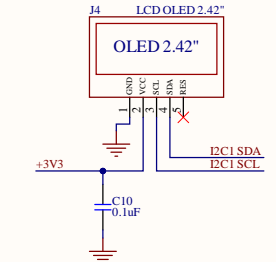
MCU - STM32F030F4P6



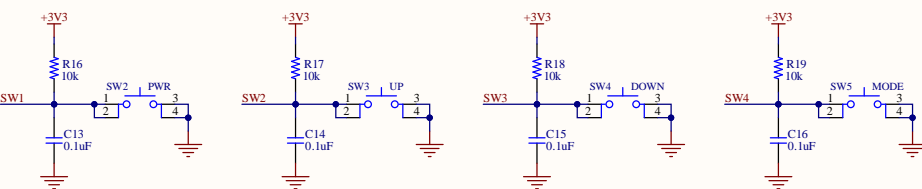
BUZZER



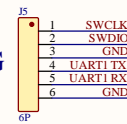
LCD DISPLAY



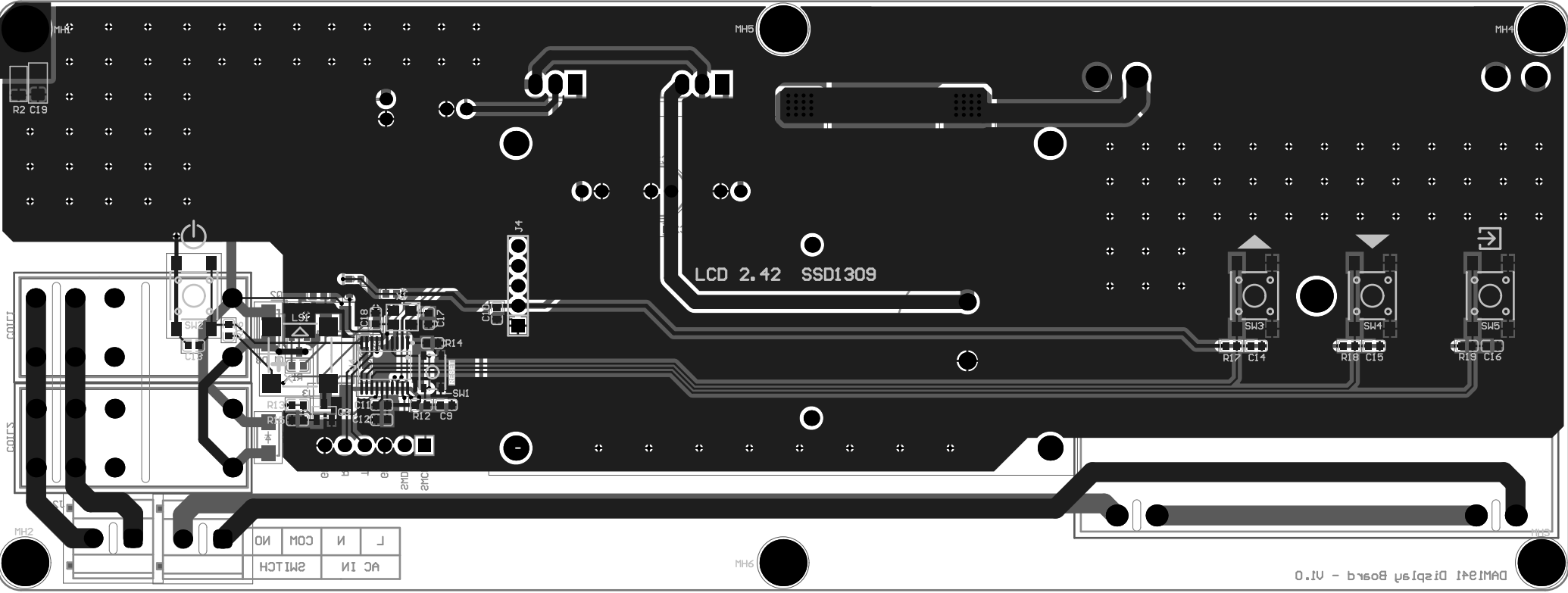
BUTTONS

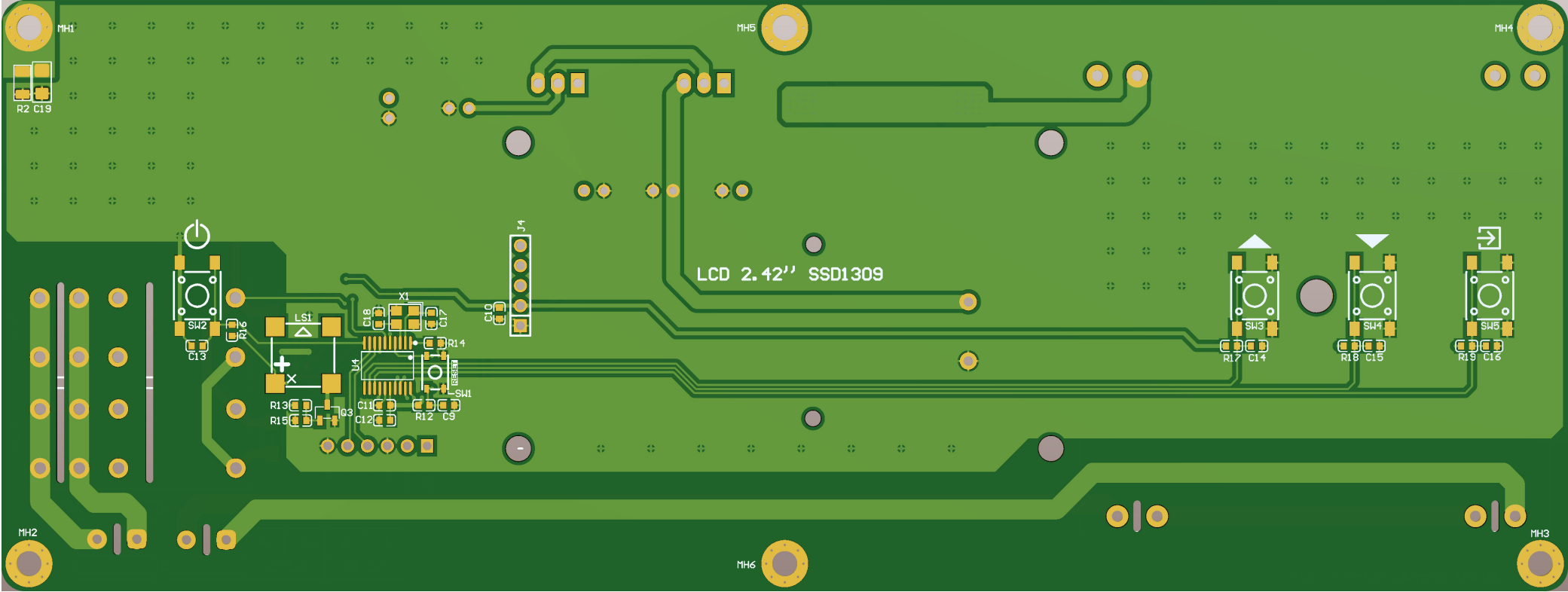


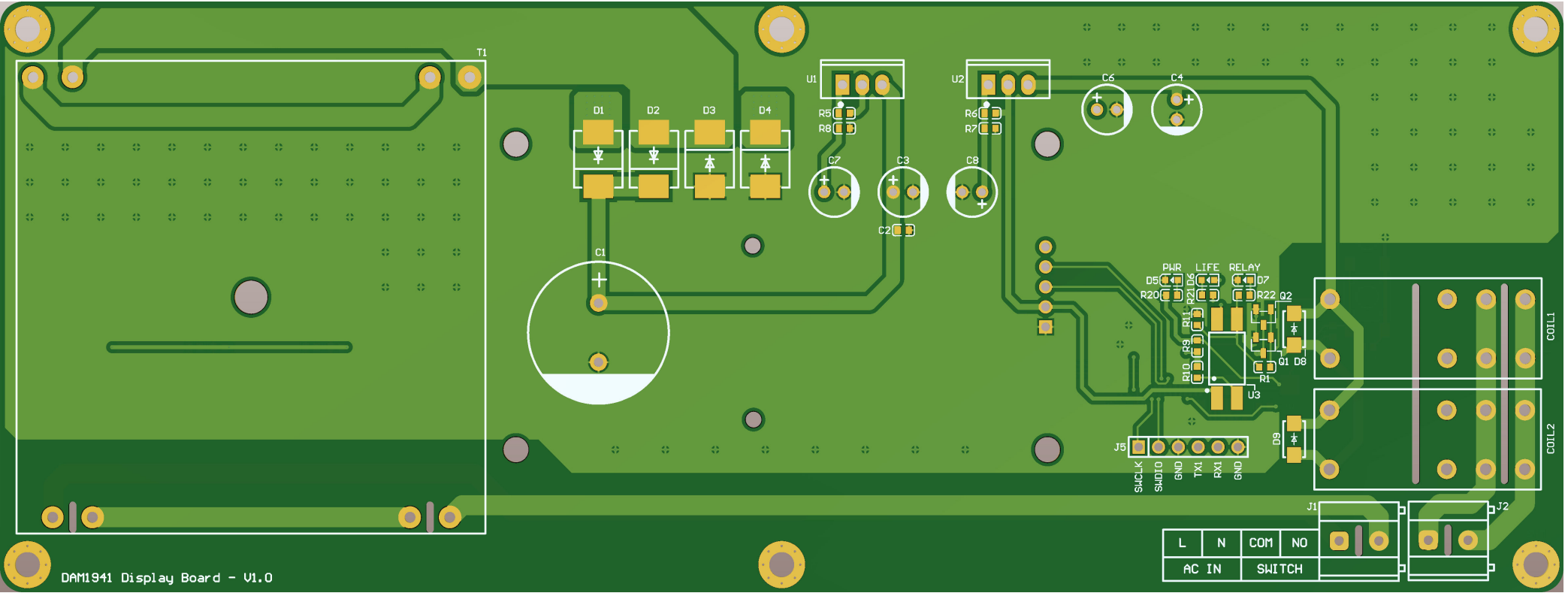
DEBUG



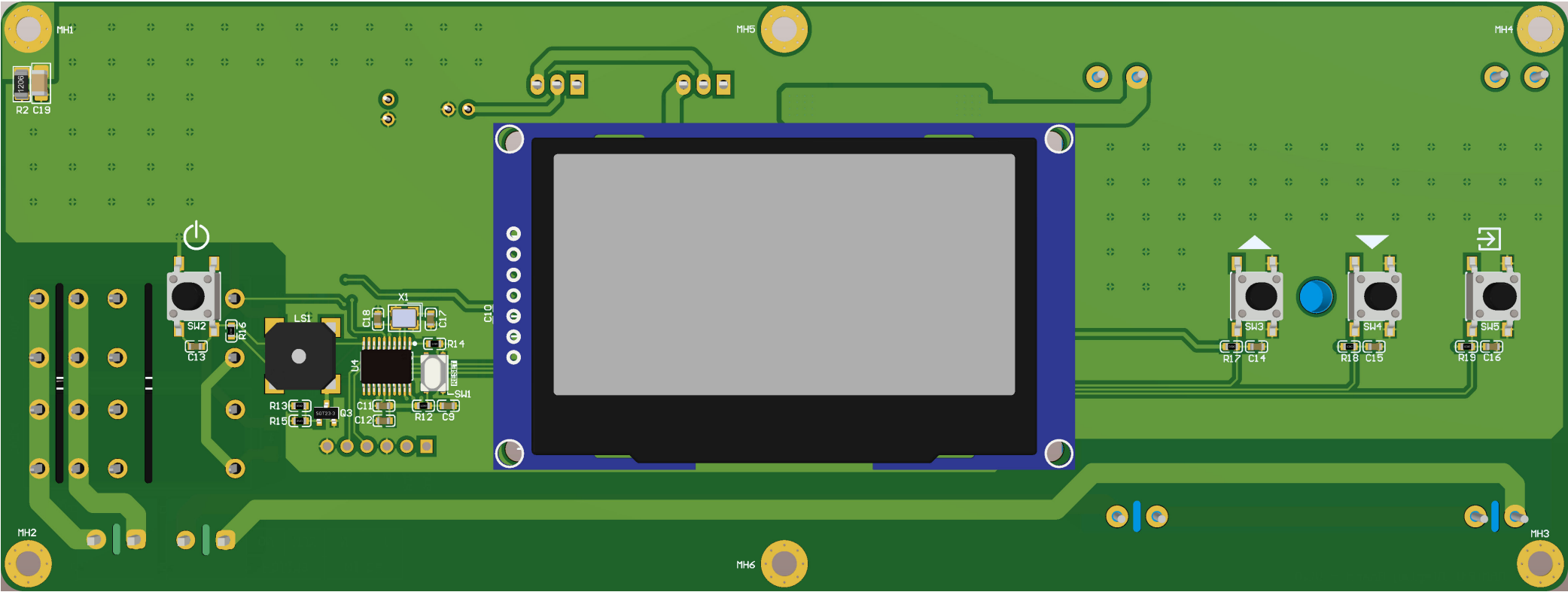
Title: LCD Display Board		
Size: A3	Project: DAC DAM1941	Revision: 1.0
Author: Ngo Thanh Nha		
Date: 1/3/2024		
		Sheet: 1 of 1

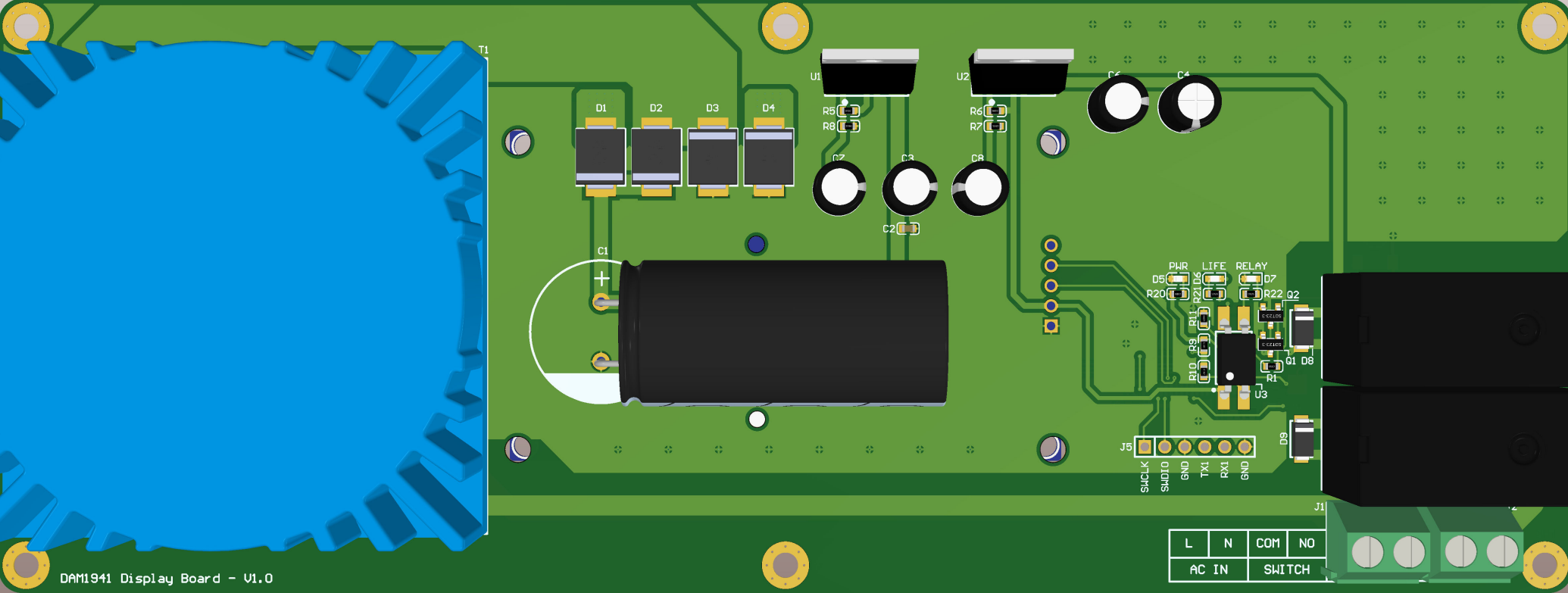






L	N	COM	NO
AC IN		SWITCH	





L	N	COM	NO
AC IN	SWITCH		

Bill of Materials - DAM1941 LCD Display V1.0

Comment	Designator	Footprint	Quantity	Supplier	Supplier Part	Manufacturer	Manufacturer Part	Description
0.1uF	C2, C9, C10, C12, C13, C14, C15, C16	C0603	8	JLPCOB	C14663	YAGEO	CC0603KR7R9BB104	50V 100nF X7R±10% 0603 Multilayer Ceramic Capacitors MLCC - SMD/SMT ROHS
0.1uF	C19	C1206	1	JLPCOB	C24497	Samsung Electro-Mechanics	CL31B104KBCNNNC	50V 100nF X7R±10% 1206 Multilayer Ceramic Capacitors MLCC - SMD/SMT ROHS
1k	R1, R13, R20, R21, R22	R0603	5	JLPCOB	C21190	UNI-ROYAL(Uniroyal Elec)	0603WAF1001T5E	100mW/Thick Film Resistors 75V±100ppm/°C ±1% 1kΩ 0603 Chip Resistor - Surface Mount ROHS
6P	J5	HDR-TH_06P-P2.54-V-M	1	JLPCOB	C2894929	HCTL	PZ254-1-06-Z-8.5	3A Straight Square Pins 2.5mm 6P 6mm -40°C--+105°C 3mm 2.54mm PlugIn Black 1x6P PlugIn,P=2.54mm Pin Headers ROHS
8MHz	X1	CRYSTAL-SMD_4P-L3.2-W2.5-BL	1	JLPCOB	C2682774	YXC	X32258MSBAS	8MHz 20pF±10ppm SMD3225-4P Crystals ROHS
10k	R9, R11, R12, R14, R15, R16, R17, R18, R19	R0603	9	JLPCOB	C25804	UNI-ROYAL(Uniroyal Elec)	0603WAF1002T5E	100mW/Thin Film Resistor ±25ppm/°C ±0.1% 10kΩ 0603 Chip Resistor - Surface Mount ROHS
10R	R2	R1206	1	JLPCOB	C17903	RESI	1206W4F100JT5E	250mW/Thick Film Resistors ±1%±400ppm/°C 10Ω 1206 Chip Resistor - Surface Mount ROHS
10uF	C7, C8	CAP-TH_BD6.3-P2.50-D1.0-FD	2	JLPCOB	C399662	ELNA	RFS-25V100ME3#5	10uF 25V±20% PlugIn,D5xL11mm Aluminum Electrolytic Capacitors - Leaded ROHS
10uF	C11	C0603	1	JLPCOB	C96446	Samsung Electro-Mechanics	CL10A106MA8NRNC	25V 10uF X5R±20% 0603 Multilayer Ceramic Capacitors MLCC - SMD/SMT ROHS
10uF 25V	C3	CAP-TH_BD6.3-P2.50-D1.0-FD	1	JLPCOB	C399662	ELNA	RFS-25V100ME3#5	10uF 25V±20% PlugIn,D5xL11mm Aluminum Electrolytic Capacitors - Leaded ROHS
22pF	C17, C18	C0603	2	JLPCOB	C561821	KEMET	C0603C220K5RAC7867	50V 22pF CoG±1% 0603 Multilayer Ceramic Capacitors MLCC - SMD/SMT ROHS
100uF	C4, C6	CAP-TH_BD6.3-P2.50-D1.0-FD	2	JLPCOB	C399647	ELNA	RFO-25V101MF3P#-T58	100uF 25V PlugIn,6.3x11mm Aluminum Electrolytic Capacitors - Leaded ROHS
120R	R5, R6, R10	R0603	3	JLPCOB	C2828631	Viking Tech	AR03BTC1X1200	100mW/Thin Film Resistor ±25ppm/°C ±0.1% 120Ω 0603 Chip Resistor - Surface Mount ROHS
200R	R7	R0603	1	JLPCOB	C351668	RESI	PTFR0603B200RP9	100mW/Thin Film Resistor ±25ppm/°C ±0.1% 200Ω 0603 Chip Resistor - Surface Mount ROHS
360R	R8	R0603	1	JLPCOB	C25194	UNI-ROYAL(Uniroyal Elec)	0603WAF3600T5E	100mW/Thick Film Resistors ±100ppm/°C ±1% 360Ω 0603 Chip Resistor - Surface Mount ROHS
4700uF	C1	CAP-TH_BD18.0-P7.50-D1.2-FD	1	JLPCOB	C92163	PANASONIC	KM478M050L40RROVH2FP0	4700uF 50V ±20% PlugIn,D18xL40mm Aluminum Electrolytic Capacitors - Leaded ROHS
Domino 2P	J1, J2	CONN-TH_P5.08 KF128L-5.08-2P	2	JLPCOB	C2915639	DIBO	DB128V-5.08-2P-GN-S	1x2P 20A -40°C--+105°C 300V Green 12-30 Straight pin 5.08mm 2.5 1.2 PlugIn,P=5.08mm Screw terminal ROHS
DOWN	SW4	SW-SMD_4P-L6.0-W6.0-P4.50-L59.2	1	JLPCOB	C455114	XUNPU	TS-1002S-07026C	50mA Brick nogging SPST 12V SMD,6x6mm Tactile Switches ROHS
LCD OLED 2.42"	J4	LCD_OLED_2.42_NON_OUTLINE	1	JLPCOB	C5139769	HS	HS242L01WZ01	2.42 SSD1309 - LCD Displays Modules ROHS
LED LIFE	D6	LED0603-RD	1	JLPCOB	C434423	Yongyu Photoelectric	SZY0603YG	Green/Yellow-Green 0603 Light Emitting Diodes (LED) ROHS
LED PWR	D5	LED0603-RD	1	JLPCOB	C2286	Hubei KENTO Elec	KT-0603R	-40°C--+85°C Red 0603 Light Emitting Diodes (LED) ROHS
LM1085IT-ADJ	U1, U2	TO-220-3_L10.0-W4.5-P2.54-L	2	JLPCOB	C9665	Texas Instruments	LM1085IT-ADJ/NOPB	75dB@ (120Hz) 3A Adjustable 1.25V-15V Positive 29V TO-220 Linear Voltage Regulators (LDO) ROHS
MLT-8530	LS1	BUZ-SMD_4P-L8.5-W8.5-P8.50-BR	1	JLPCOB	C94599	Jiangsu Huaneng Elec	MLT-8530	Externally Driven 80dB@5V,10cm Magnetic 2700Hz SMD,8.5x8.5mm Buzzers ROHS
MMBT2222A	Q1, Q2	SOT-23-3_L2.9-W1.3-P1.90-LS2.4-BR	2	JLPCOB	C8512	Jiangsu Changing Electronics Technology Co., Ltd.	MMBT2222A 1P	40V 300mW 600mA NPN SOT-23 Bipolar Transistors - BJT ROHS
MMBT3904	Q3	SOT-23-3_L2.9-W1.3-P1.90-LS2.4-BR	1	JLPCOB	C20526	Jiangsu Changing Electronics Technology Co., Ltd.	MMBT3904	40V 200mW 100@10mA, 1V 200mA NPN SOT-23 Bipolar Transistors - BJT ROHS
MODE	SW5	SW-SMD_4P-L6.0-W6.0-P4.50-L59.2	1	JLPCOB	C455114	XUNPU	TS-1002S-07026C	50mA Brick nogging SPST 12V SMD,6x6mm Tactile Switches ROHS
OPTO SIG LED	D7	LED0603-RD	1	JLPCOB	C434423	Yongyu Photoelectric	SZY0603YG	Green/Yellow-Green 0603 Light Emitting Diodes (LED) ROHS
PC817	U3	OPTO-SMD-4_L4.6-W6.5-P2.54-LS10.3-TL	1	JLPCOB	C06405	Sharp Microelectronics	PC8172CSP9F	80V 5000V 50mA 0.1V@1mA, 20mA 1.6V 1.2V DC SMD-4P Optocouplers - Phototransistor Output ROHS
PWR	SW2	SW-SMD_4P-L6.0-W6.0-P4.50-L59.2	1	JLPCOB	C455114	XUNPU	TS-1002S-07026C	50mA Brick nogging SPST 12V SMD,6x6mm Tactile Switches ROHS
Relay 8P	COIL1, COIL2	RELAY-TH_G2RL-1-E-CN	2	JLPCOB	C397258	Omron Electronics	G2RL-1-E-CN DC5	DIP, 12.5x28.8mm Power Relays ROHS
RST	SW1	KEY-SMD_4P-L4.2-W3.25-P2.15-TL	1	JLPCOB	C2689510	C&K	PTS815SM250SMTPLFS	0.05A Brick nogging SPST - NO 180gf 12V SMD,3.2x4.2mm Tactile Switches ROHS
SWA J12CA	D8, D9	DO214AC	2	JLPCOB	C22452	MDD	SS54	19.9V 13.3V 12V SWA(DO-214AC) TVS ROHS
SS54C	D1, D2, D3, D4	SMC_L7.1-W6.2-LS8.1-R-RD	4	JLPCOB	C16103	MDD	SS54C	40V 550mW@5A 5A SMC(DO-214AB) Schottky Barrier Diodes (SBD) ROHS
STM32F030F4P6	U4	TSSOP-20_L6.5-W4.4-P0.65-LS6.4-BL	1	JLPCOB	C32908	STMicroelectronics	STM32F030F4P6	16kB 2.4V-3.6V ARM Cortex-M0 4kB 48MHz FLASH 15 TSSOP-20 Microcontroller Units (MCUs/MPUs/SOCs) ROHS
UP	SW3	SW-SMD_4P-L6.0-W6.0-P4.50-L59.2	1	JLPCOB	C455114	XUNPU	TS-1002S-07026C	50mA Brick nogging SPST 12V SMD,6x6mm Tactile Switches ROHS
70050K Talema Trans	T1	TALEMA-TRANSFORMER-15VA-70050K	1	Talema	70050K	Talema	70050K	Talema Transformer 15VA - 230VAC Primary - 7VAC Secondary