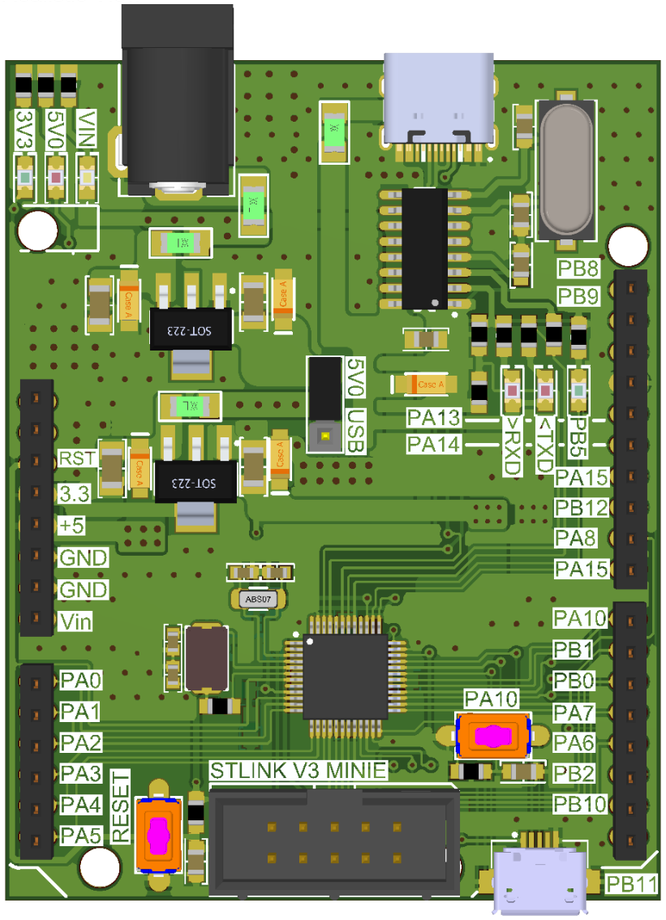
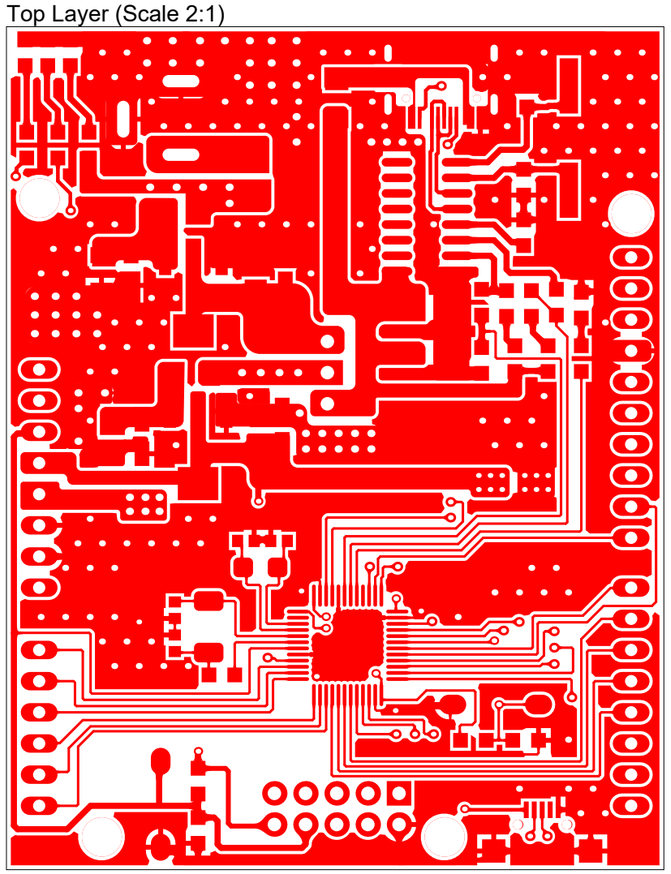
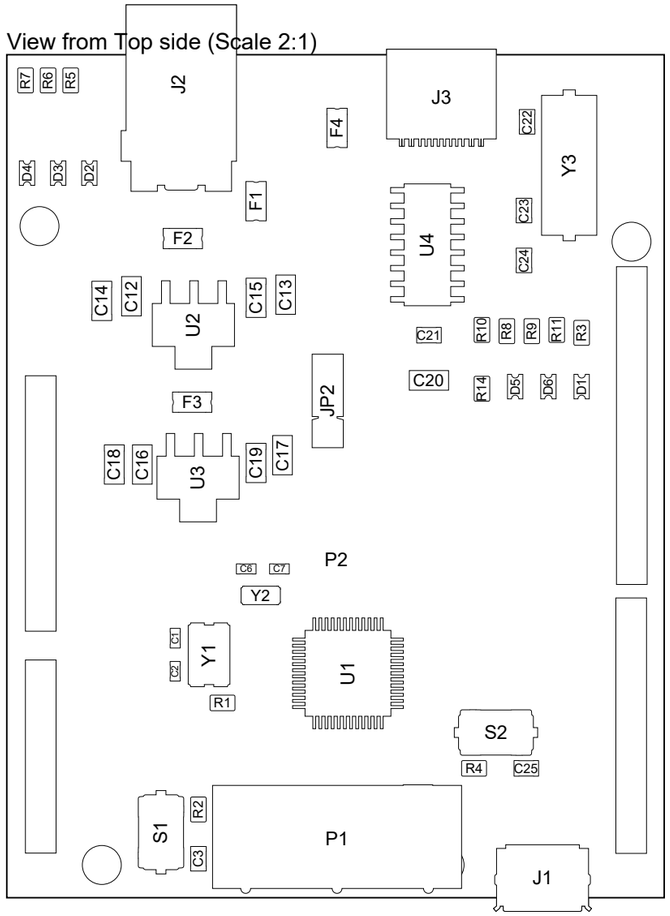
Realistic View



Top Layer (Scale 2:1)

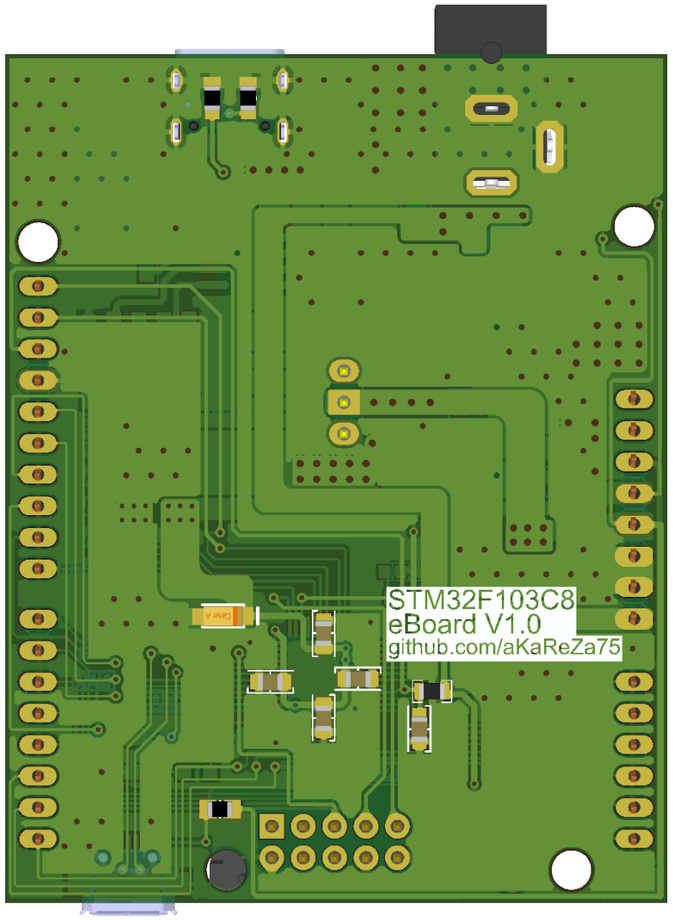


View from Top side (Scale 2:1)

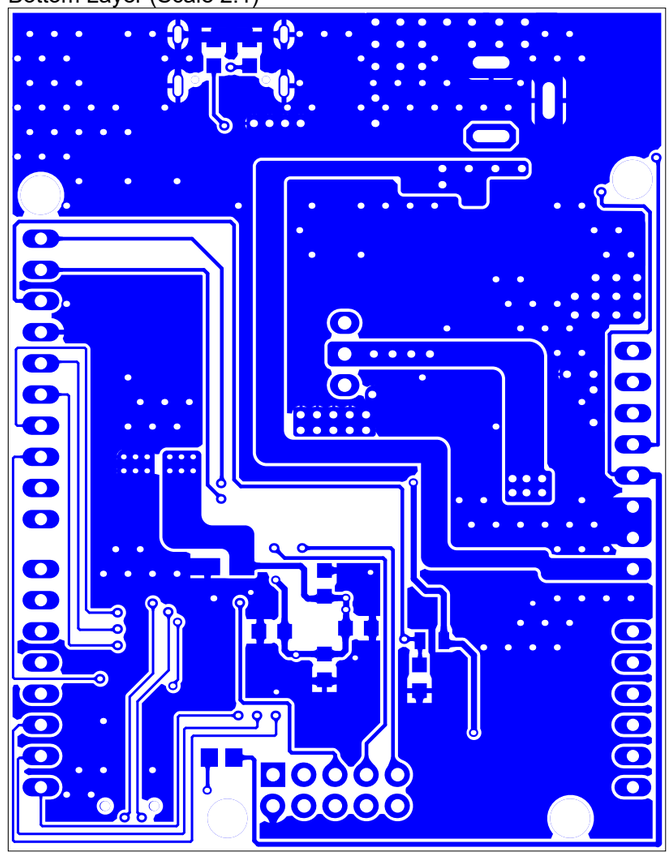


Title: TOP View	Drawn by:	Hossein Bagheri	
Project: STM32F103C8	Revision: 1.0	aKaReZa	
Company: github.com/aKaReZa75	Sheet 1 of 7		

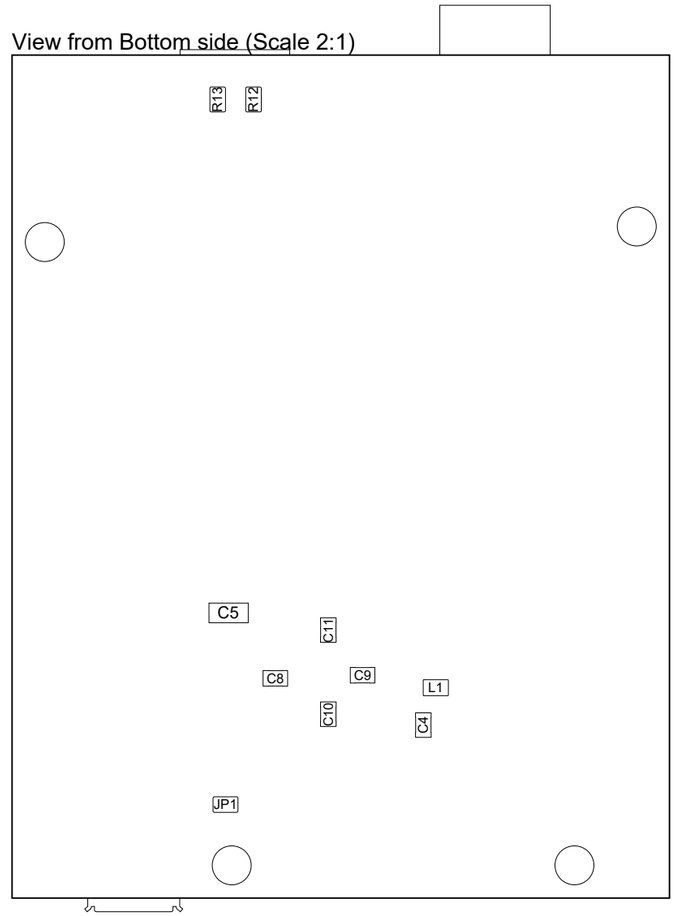
Realistic View



Bottom Layer (Scale 2:1)

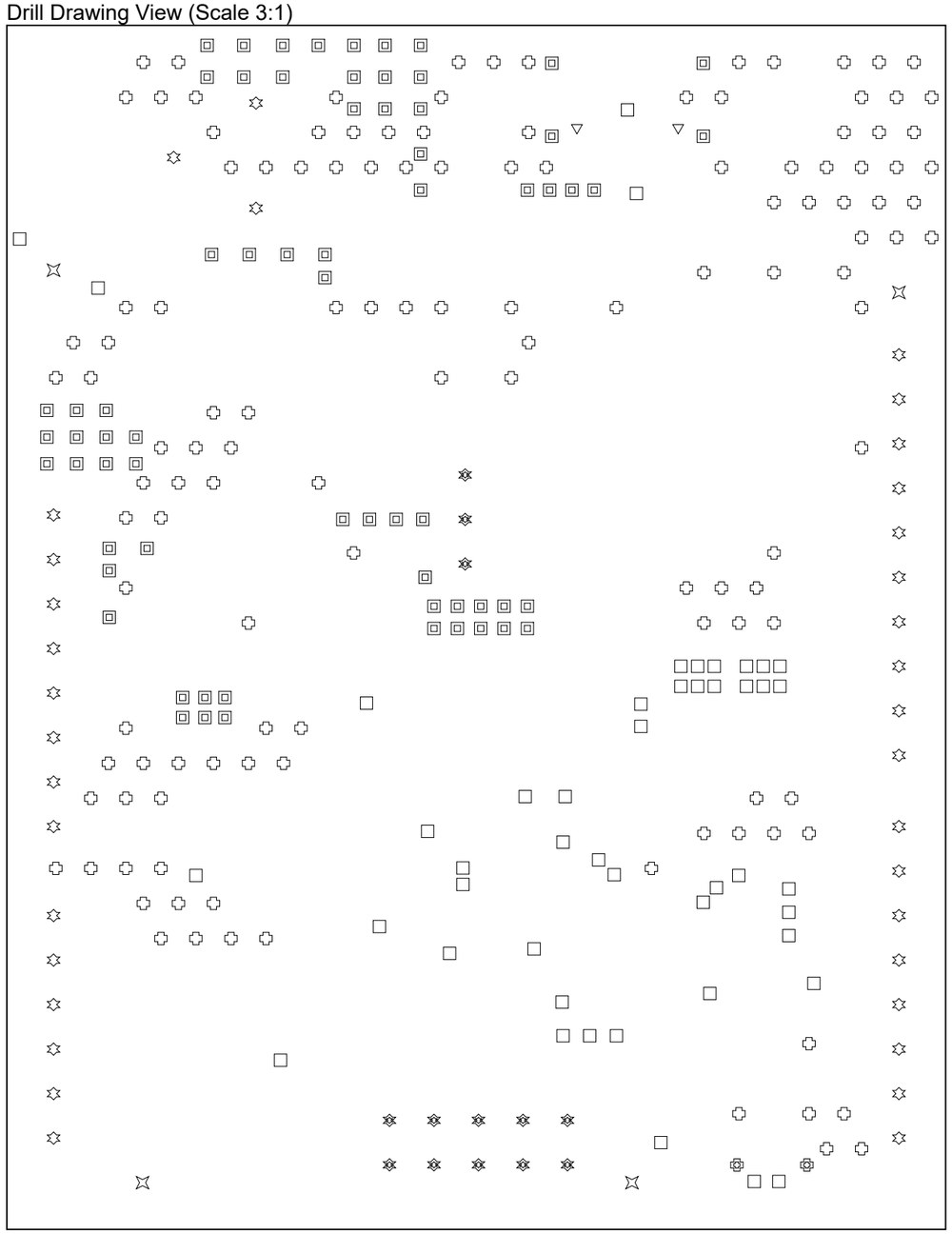


View from Bottom side (Scale 2:1)

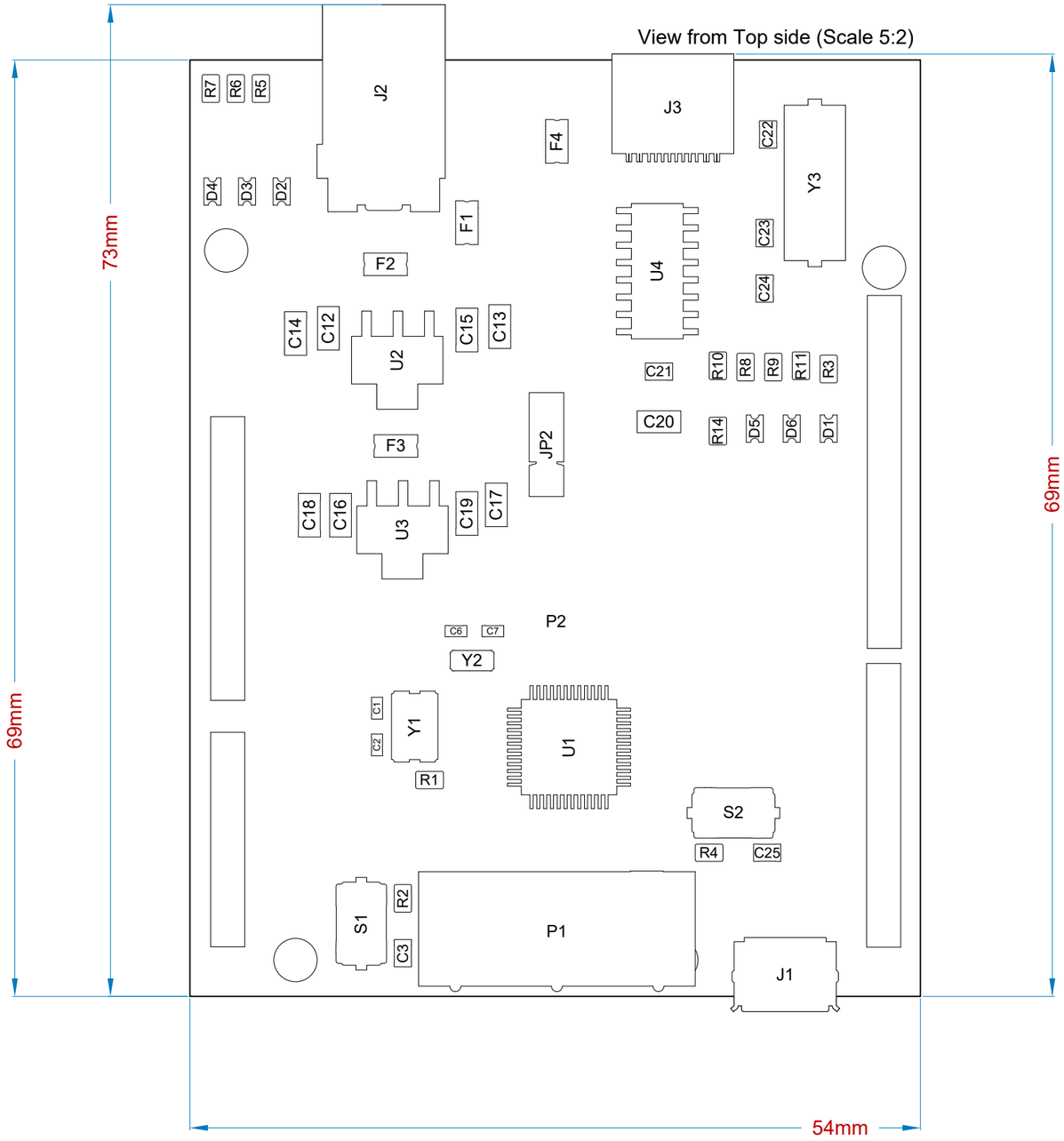


Title: Bottom View	Drawn by:	Hossein Bagheri	
Project: STM32F103C8	Revision: 1.0	aKaReZa	
Company: github.com/aKaReZa75	Sheet 2 of 7		

Drill Drawing View (Scale 3:1)



View from Top side (Scale 5:2)

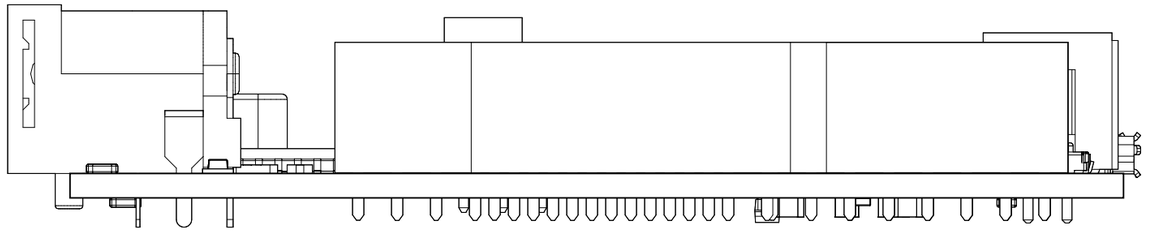


Drill Table

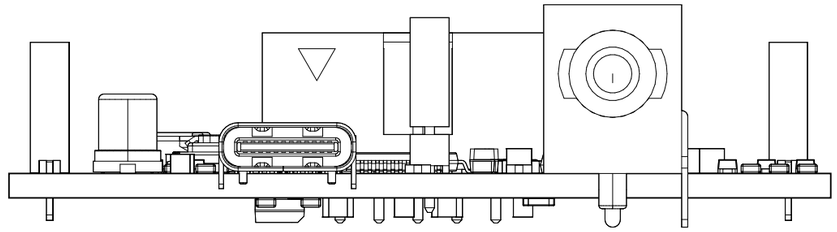
Symbol	Count	Hole Size	Plated	Hole Tolerance
□	47	0mm	Plated	
⌑	129	0mm	Plated	
▽	2	1mm	Non-Plated	
⧈	67	1mm	Plated	
⌾	2	1mm	Plated	
✡	35	1mm	Plated	
✵	13	1mm	Plated	
⌧	4	3mm	Plated	
	299 Total			

Title: Drill Drawing and Dimensions	Drawn by:	Hossein Bagheri	
Project: STM32F103C8	Revision: 1.0	aKaReZa	
Company: github.com/aKaReZa75	Sheet 3 of 7		

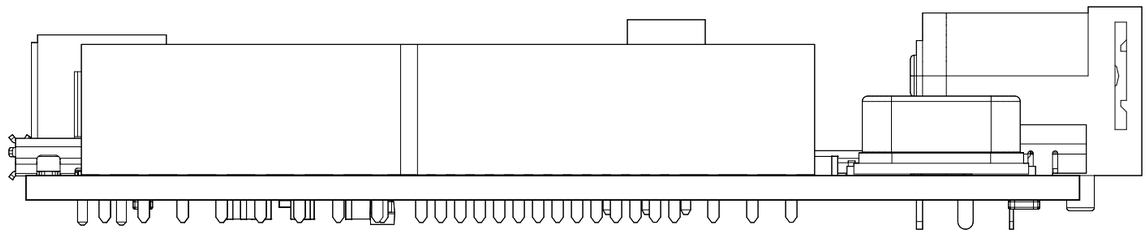
View from Left side (Scale 5:2)



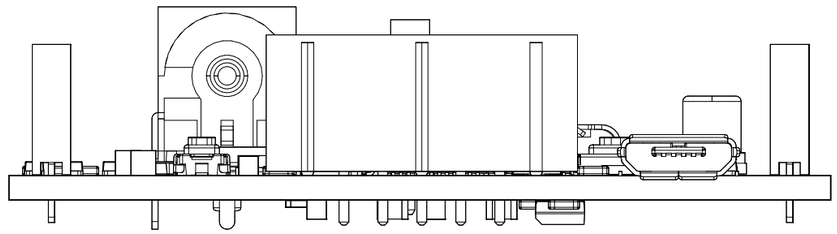
View from Back side (Scale 5:2)



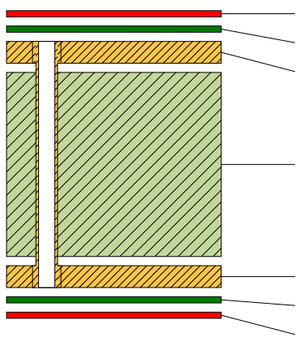
View from Right side (Scale 5:2)



View from Front side (Scale 5:2)



Layer Stack Legend

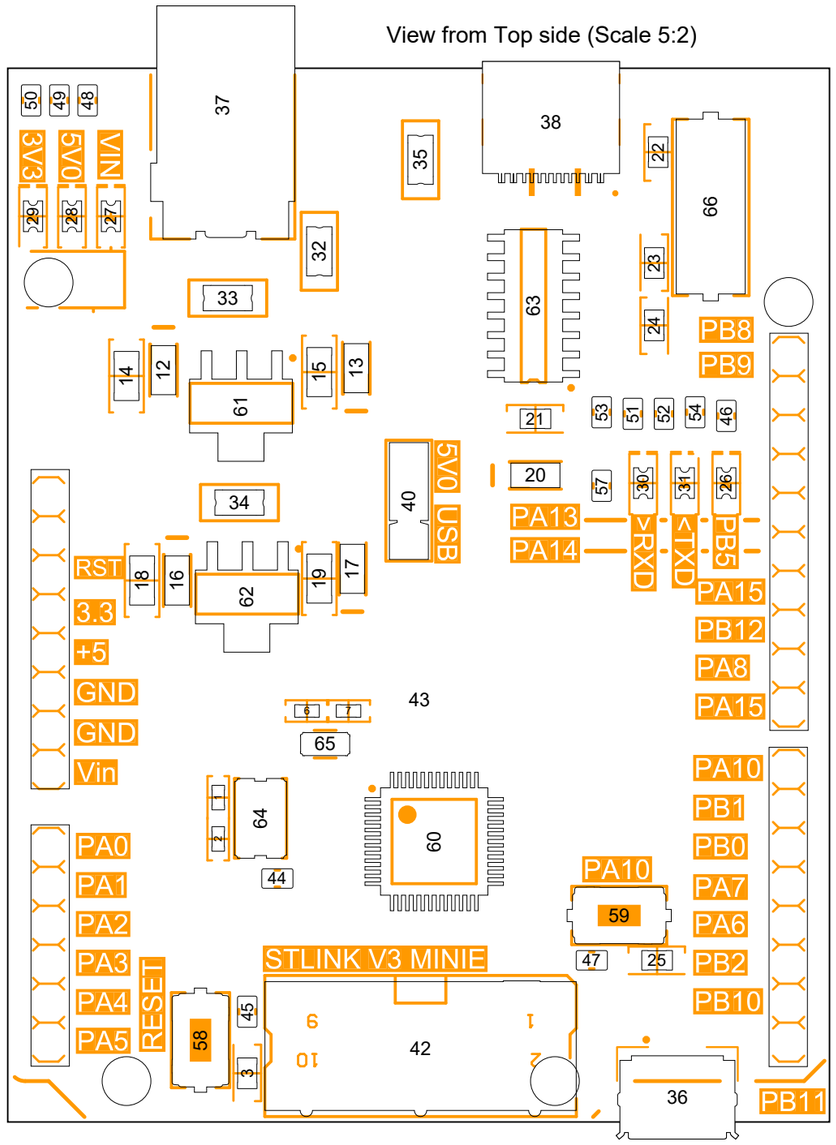


Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Top Overlay			Legend	GTO
Surface Material	Top Solder	0mm	Solder Resist	Solder Mask	GTS
Copper	**Top Layer**	**0mm**		**Signal**	**GTL**
		1mm	*FR-4*	*Dielectric*	
Copper	**Bottom Layer**	**0mm**		**Signal**	**GBL**
Surface Material	Bottom Solder	0mm	Solder Resist	Solder Mask	GBS
	Bottom Overlay			Legend	GBO

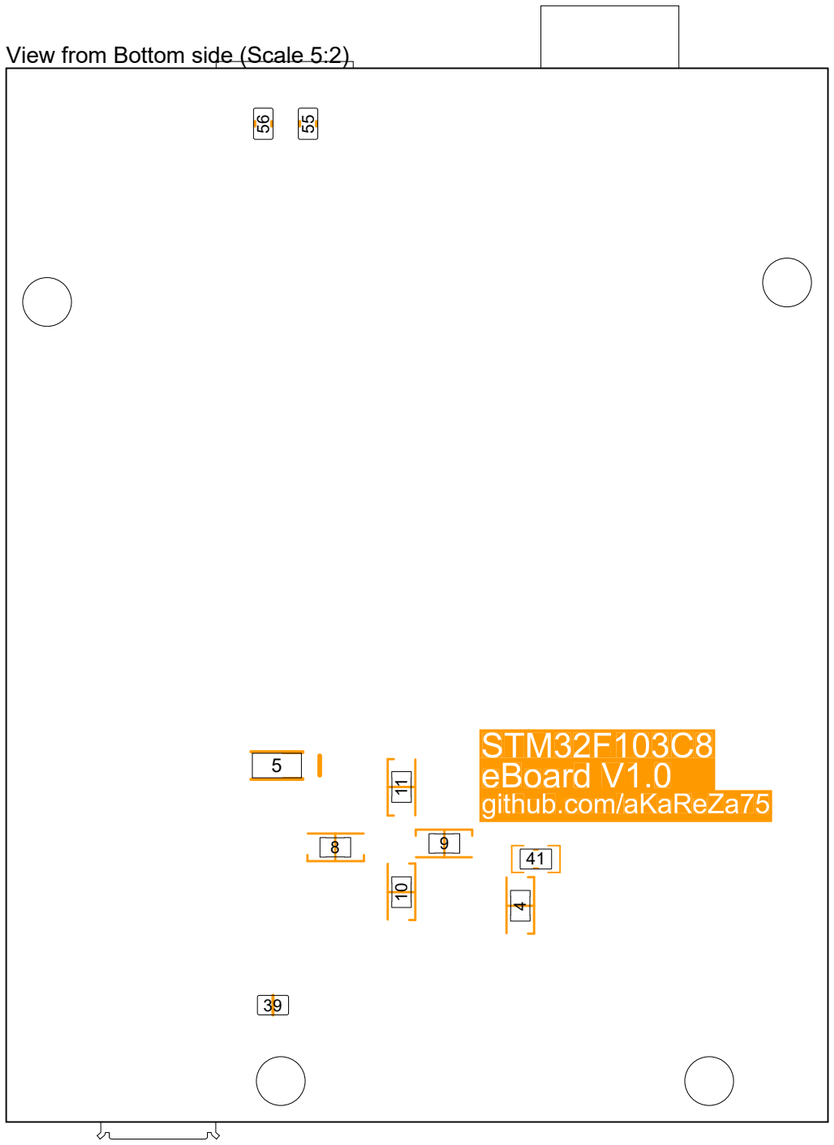
Total thickness: 2mm

Title: Layer Stack and Side View	**Drawn by:**	**Hossein Bagheri**	
Project: STM32F103C8	**Revision:** 1.0	aKaReZa	
Company: github.com/aKaReZa75	**Sheet** 4 **of** 7		

View from Top side (Scale 5:2)



View from Bottom side (Scale 5:2)



Title: Component Positions View	Drawn by:	Hossein Bagheri	
Project: STM32F103C8	Revision: 1.0	aKaReZa	
Company: github.com/aKaReZa75	Sheet 5 of 7		

Bill Of Materials

Line #	Designator	Comment	Library Ref	Footprint	Package	Rating	Type	Value
1	C1	20p	Cap_Multi_SMD	CAP 0603/1608	0603	Rating?	Type?	20p
2	C2	20p	Cap_Multi_SMD	CAP 0603/1608	0603	Rating?	Type?	20p
3	C3	100n	Cap_Multi_SMD_100nF_0805	CAP 0805/2012	0805	50V	MultiLayer	100n
4	C4	100n	Cap_Multi_SMD_100nF_0805	CAP 0805/2012	0805	50V	MultiLayer	100n
5	C5	10u	Cap_Tantalum	SMT_C_Tantalum_A	Package?	6.3V	Tantalum	10u
6	C6	12.5p	Cap_Multi_SMD	CAP 0603/1608	0603	Rating?	Type?	12.5p
7	C7	12.5p	Cap_Multi_SMD	CAP 0603/1608	0603	Rating?	Type?	12.5p
8	C8	100n	Cap_Multi_SMD_100nF_0805	CAP 0805/2012	0805	50V	MultiLayer	100n
9	C9	100n	Cap_Multi_SMD_100nF_0805	CAP 0805/2012	0805	50V	MultiLayer	100n
10	C10	100n	Cap_Multi_SMD_100nF_0805	CAP 0805/2012	0805	50V	MultiLayer	100n
11	C11	100n	Cap_Multi_SMD_100nF_0805	CAP 0805/2012	0805	50V	MultiLayer	100n
12	C12	10u	Cap_Tantalum	SMT_C_Tantalum_A	Package?	16V	Tantalum	10u
13	C13	22u	Cap_Tantalum	SMT_C_Tantalum_A	Package?	6.3V	Tantalum	22u
14	C14	100n	Cap_Multi_SMD_100nF_1206	CAP 1206/3216	1206	50V	MultiLayer	100n
15	C15	100n	Cap_Multi_SMD_100nF_1206	CAP 1206/3216	1206	50V	MultiLayer	100n
16	C16	10u	Cap_Tantalum	SMT_C_Tantalum_A	Package?	16V	Tantalum	10u
17	C17	22u	Cap_Tantalum	SMT_C_Tantalum_A	Package?	6.3V	Tantalum	22u
18	C18	100n	Cap_Multi_SMD_100nF_1206	CAP 1206/3216	1206	50V	MultiLayer	100n
19	C19	100n	Cap_Multi_SMD_100nF_1206	CAP 1206/3216	1206	50V	MultiLayer	100n
20	C20	10u	Cap_Tantalum	SMT_C_Tantalum_A	Package?	6.3V	Tantalum	10u
21	C21	100n	Cap_Multi_SMD_100nF_0805	CAP 0805/2012	0805	50V	MultiLayer	100n
22	C22	22p	Cap_Multi_SMD_0805	CAP 0805/2012	0805	Rating?	MultiLayer	22p
23	C23	22p	Cap_Multi_SMD_0805	CAP 0805/2012	0805	Rating?	MultiLayer	22p
24	C24	10n	Cap_Multi_SMD_0805	CAP 0805/2012	0805	Rating?	MultiLayer	10n
25	C25	100n	Cap_Multi_SMD_100nF_0805	CAP 0805/2012	0805	50V	MultiLayer	100n
26	D1	Green	Semi_LED_SMD	LED 0805/2012 GREEN	Package?	Rating?	LED	Green
27	D2	Yellow	Semi_LED_SMD	LED 0805/2012 YELLOW	Package?	Rating?	LED	Yellow
28	D3	Red	Semi_LED_SMD	LED 0805/2012 RED	Package?	Rating?	LED	Red
29	D4	Green	Semi_LED_SMD	LED 0805/2012 GREEN	Package?	Rating?	LED	Green
30	D5	Red	Semi_LED_SMD	LED 0805/2012 RED	Package?	Rating?	LED	Red
31	D6	Red	Semi_LED_SMD	LED 0805/2012 RED	Package?	Rating?	LED	Red
32	F1	3A	Other_Elec_Fuse_SMD	1206_F	1206	Rating?	Fast	3A
33	F2	0.5A	Other_Elec_Fuse_SMD	1206_F	1206	Rating?	Fast	0.5A
34	F3	0.5A	Other_Elec_Fuse_SMD	1206_F	1206	Rating?	Fast	0.5A
35	F4	500m	Other_Elec_Fuse_SMD	1206_F	1206	Rating?	Fast	500m
36	J1	Micro	Con_USB2_Micro	USB_Micro_Standard	Package?	Rating?	Type?	Micro
37	J2	Female	Con_Power_Jack	Power Jack BIG	Package?	Rating?	Type?	Female
38	J3	12b	Con_USB_C	HRO_TYPE-C-31-M-12 - Extended	SMD	Rating?	C	12b
39	JP1	Jumper	Other_Elec_Jumper_0805	RESC2012M (0805)	0805	Rating?	Type?	Jumper
40	JP2	0b	SW_Other_JSelector_Dip	jumper selector	Dip	Rating?	Selector	0b
41	L1	100u	Ind_SMD_0805	IND0805	0805	Rating?	SMD	100u
42	P1	STLinkV3-minie	Con_Prog_STLinkV3_SWD	IDC2.54-10PIN	Package?	Rating?	SWD	STLinkV3-minie
43	P2	UNO	Con_Arduino_UNO_Con	ARDUINO_UNO_CONNECTOR	Package?	Rating?	Type?	UNO

Title: Bill of Materials	Drawn by:	Hossein Bagheri
Project: STM32F103C8	Revision: 1.0	aKaReZa
Company: github.com/aKaReZa75	Sheet 6 of 7	

Bill Of Materials

Line #	Designator	Comment	Library Ref	Footprint	Package	Rating	Type	Value
44	R1	390b	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	390b
45	R2	10K	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	10K
46	R3	1K	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	1K
47	R4	10K	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	10K
48	R5	1.8K	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	1.8K
49	R6	680b	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	680b
50	R7	220b	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	220b
51	R8	680	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	680
52	R9	680	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	680
53	R10	1K	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	1K
54	R11	1K	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	1K
55	R12	4.7K	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	4.7K
56	R13	4.7K	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	4.7K
57	R14	1.8K	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	1.8K
58	S1	PB	SW_PushButton_2_SMD	SW_PB_SMD_2PIN_SPST_6X3X2	SMD	2b	Vertical	PB
59	S2	PB	SW_PushButton_2_SMD	SW_PB_SMD_2PIN_SPST_6X3X2	SMD	2b	Vertical	PB
60	U1	STM32F103C8T6	IC_MCU_STM32F103C8T6	LQFP48_N	LQFP48	CORTEX-M3	Microcontroller	STM32F103C8T6
61	U2	5V	IC_Reg_AMS1117_3.3	SOT223_M	SOT223	1A	LDO	5V
62	U3	3.3V	IC_Reg_AMS1117_3.3	SOT223_M	SOT223	1A	LDO	3.3V
63	U4	CH340G	IC_Converter_CH340G	SO16_M	SO-16	Rating?	USB to TTL	CH340G
64	Y1	8MHz	Other_Elec_Xtal_8MHZ_SMD	XTL_2_5032	5032	10ppm	Crystal	8MHz
65	Y2	32.768KHz	Other_Elec_Xtal_32.768K_SMD	XTL_2_3215	3215	20ppm	Crystal	32.768KHz
66	Y3	12M	Other_Elec_Xtal_SMD	Crystal SMD	SMD	Rating?	Quartz	12M

Title: Bill of Materials	Drawn by:	Hossein Bagheri	
Project: STM32F103C8	Revision: 1.0	aKaReZa	
Company: github.com/aKaReZa75	Sheet 7 of 7		