

A

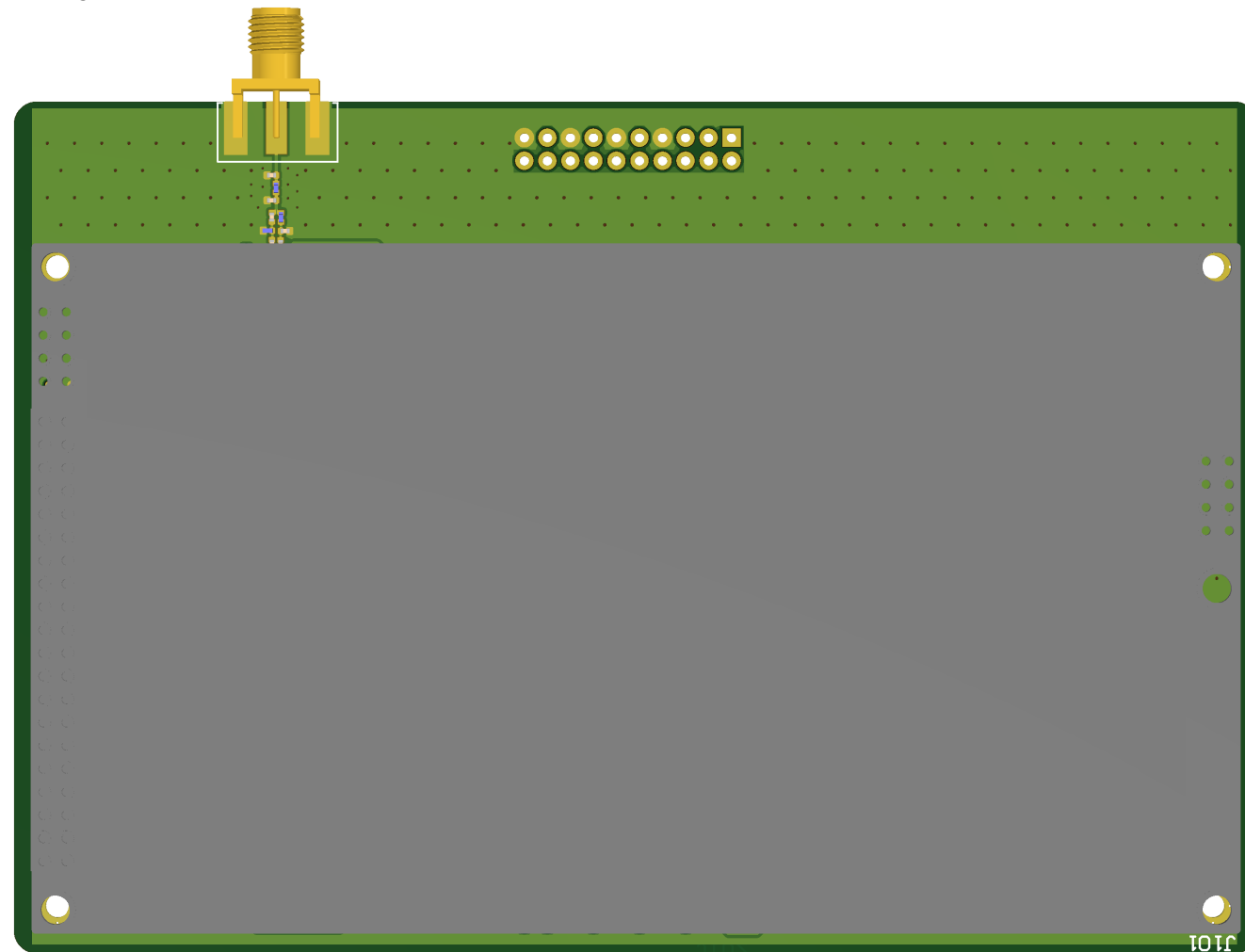
B

C

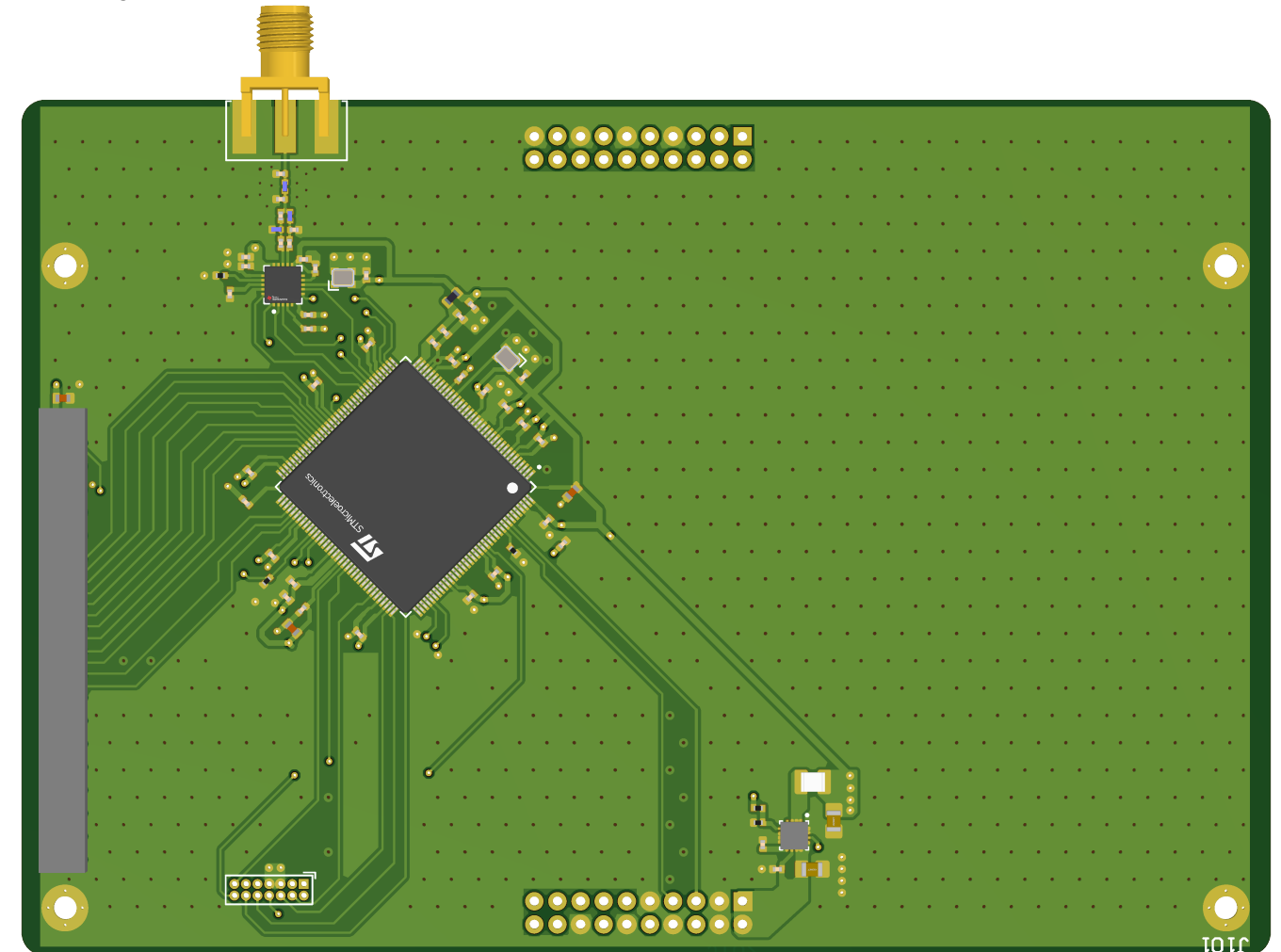
D

Dash Concept RevA

With LCD



Without LCD



Length = 137mm

Width = 94mm

Thickness = 1.6mm

Layers = 4

A

B

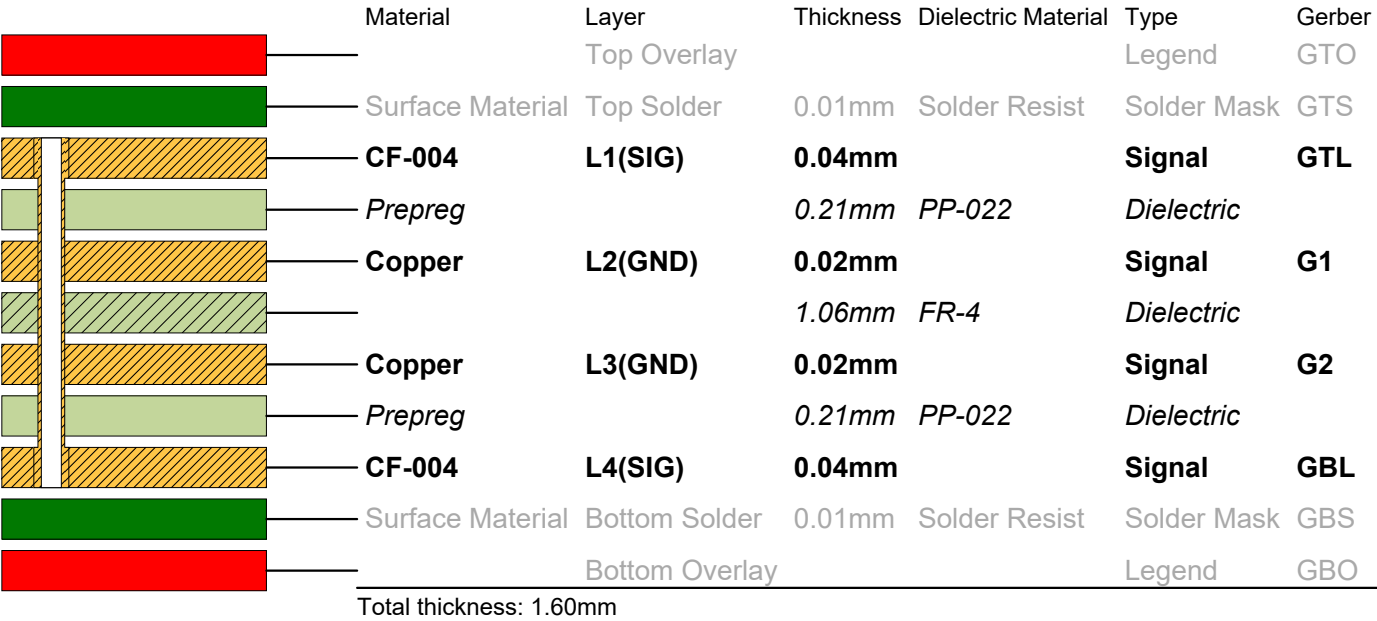
C

D

Dash Concept RevA

Impedance & Stackup

Layer Stack Legend



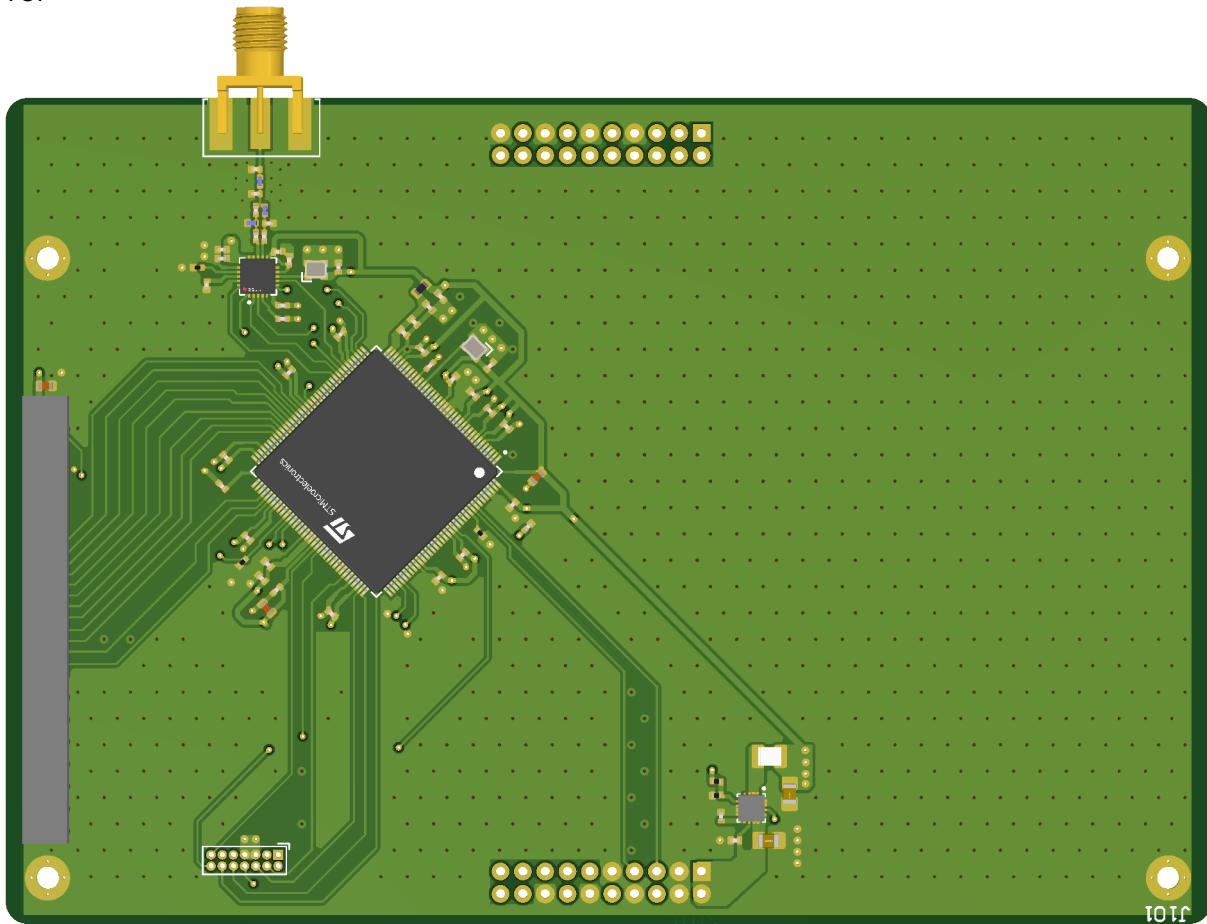
Transmission Line Structure Table

Impedance Id	Transmission Line	Target Impedance	Calculated Impedance	Trace layer	Wide Trace Width	Narrow Trace Width	Gap	Reference layers	Substack	Clearance	Target Tolerance
1	Coated Microstrip	50	50.65	L1(SIG)	0mm	0mm		L2(GND)	Board Layer Stack	0mm	10%
2	Edge-Coupled Coated Microstrip	90	96.82	L1(SIG)	0mm	0mm	0mm	L2(GND)	Board Layer Stack	0mm	10%
3	Coated Microstrip	50	53.47	L1(SIG)	2mm	2mm		L3(GND)	Board Layer Stack	0mm	10%
4	Coated Microstrip	50	50.65	L4(SIG)	0mm	0mm		L3(GND)	Board Layer Stack	0mm	10%
5	Edge-Coupled Coated Microstrip	90	96.82	L4(SIG)	0mm	0mm	0mm	L3(GND)	Board Layer Stack	0mm	10%
6	Coated Microstrip	50	53.47	L4(SIG)	2mm	2mm		L2(GND)	Board Layer Stack	0mm	10%

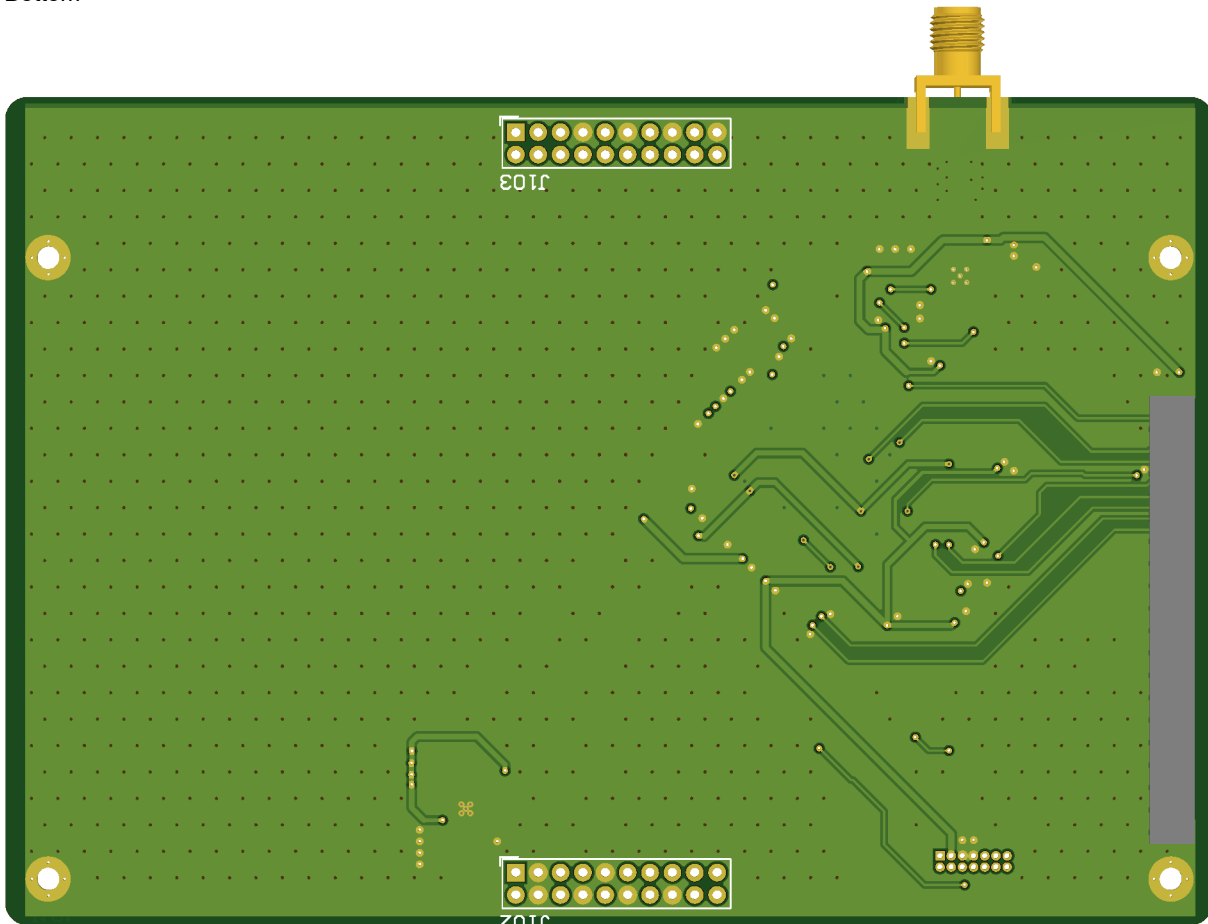
Dash Concept RevA

Front & Back

TOP



Bottom

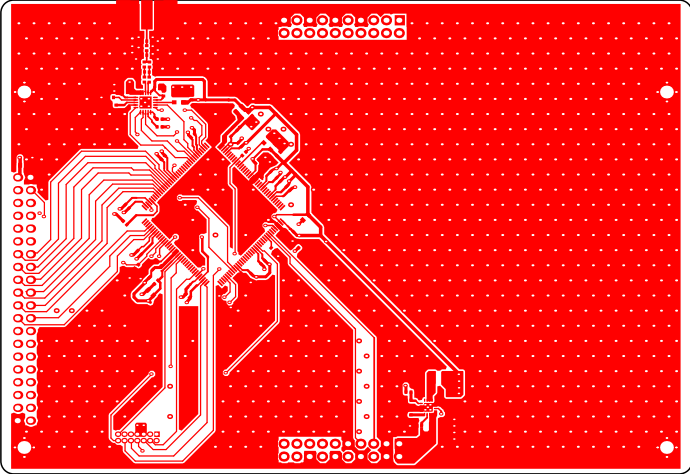


Dash Concept RevA

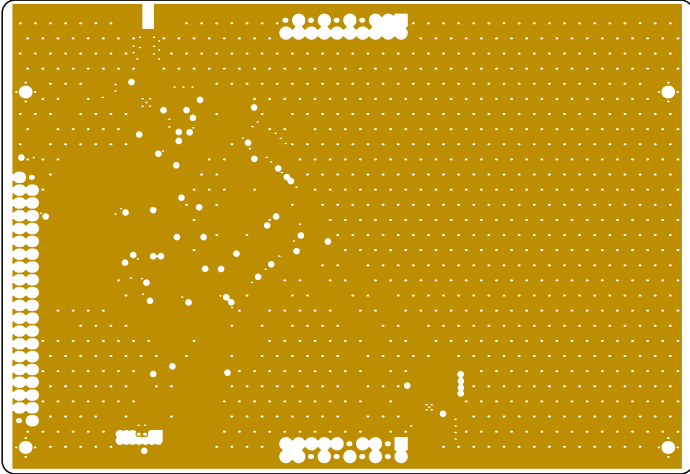
Layers

1

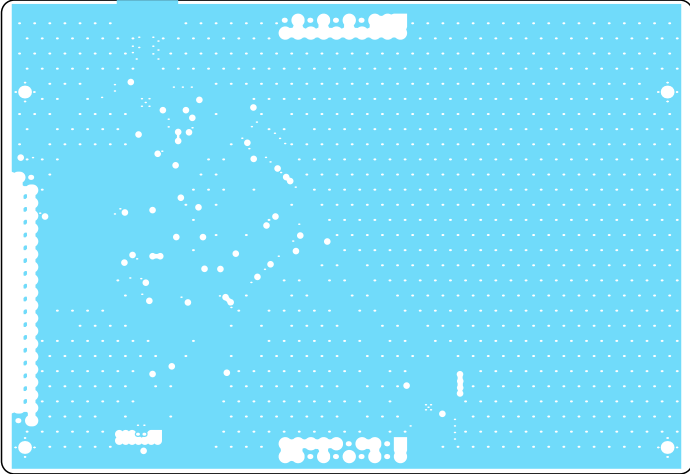
L1(SIG) (Scale 2:3)



L2(GND) (Scale 2:3)



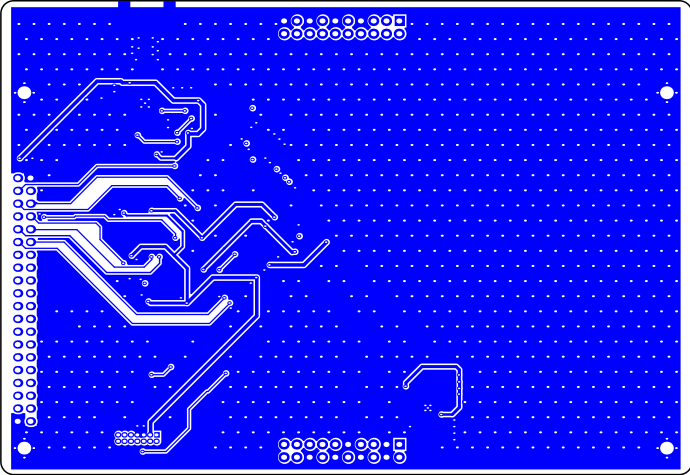
L3(GND) (Scale 2:3)



1

2

L4(SIG) (Scale 2:3)



2

Dash Concept RevA

BOM

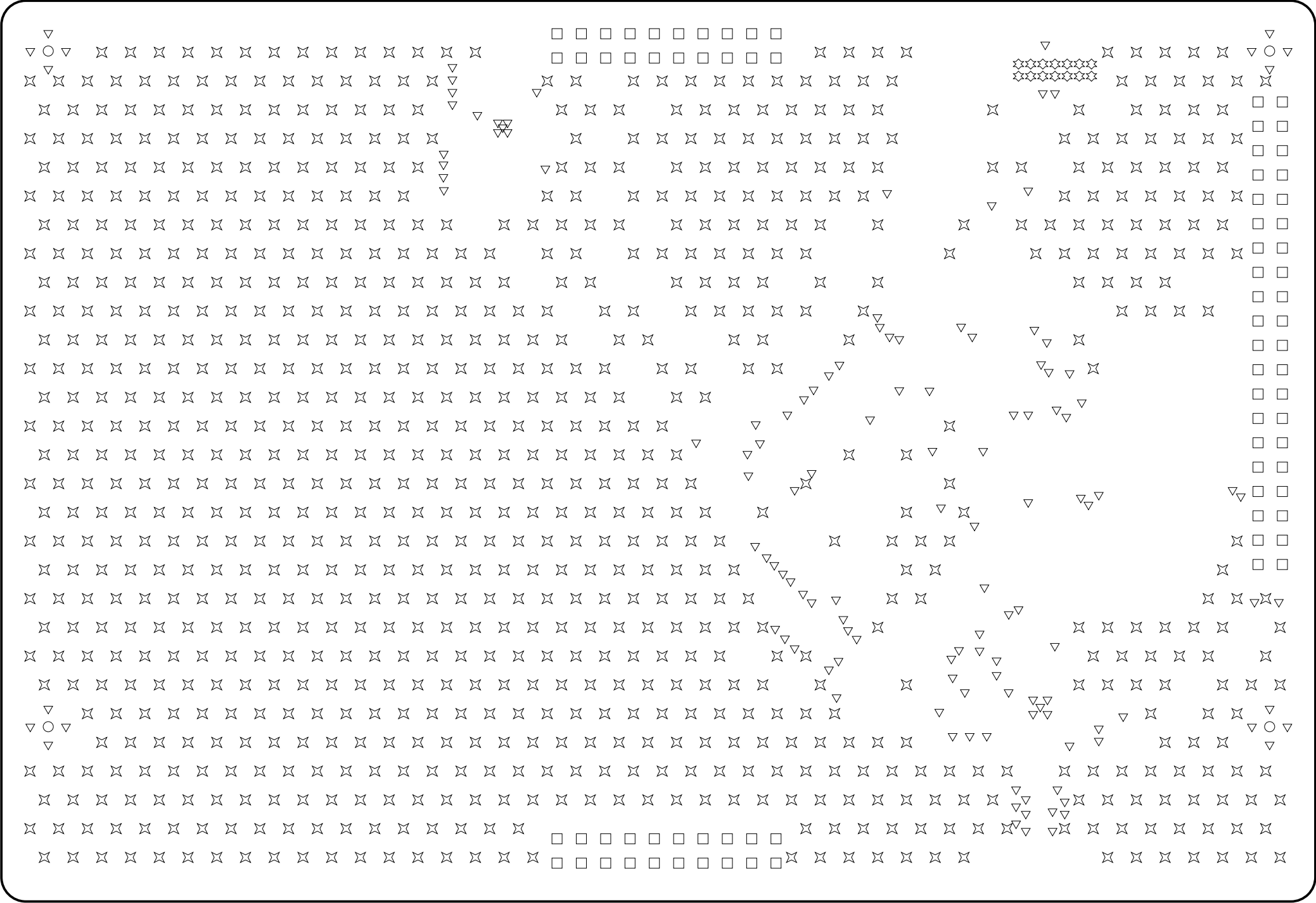
Bill Of Materials

Line #	Designator	Comment	Quantity
1	C1, C23	4u7	2
2	C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C18, C19, C20, C22, C24, C25, C28	100n	21
3	C16, C17	2u2	2
4	C21	1u	1
5	C26	10u	1
6	C27	22u	1
7	C29	3n3	1
8	C100, C200, C201, C202, C203, C204, C205, C213	100n	8
9	C101	10u	1
10	C206	100n	1
11	C207, C212	1p	2
12	C208	100p	1
13	C209	4p	1
14	C210	12p	1
15	C211	100p	1
16	FB1	600R	1
17	J100	2x7 M-Header 1.27mm	1
18	J101	LCD SCREEN	1
19	J102, J103	2x10 M-Header 2.54mm	2
20	J200	73251-1150	1
21	L1	2u2	1
22	L200, L201	1n2	2
23	L202	1n2	1
24	R1	56k	1
25	R2	523k	1
26	R3	100k	1
27	R100, R200	56k	2
28	U2	TPS62130RGTR	1
29	U100	STM32H745ZIT6	1
30	U200	CC2500RGPR	1
31	X100, X200	26Mhz	2

Dash Concept RevA

Drills

Drill Drawing View (Scale 2:1)



Drill Table

Symbol	Count	Hole Size	Plated	Hole Tolerance
▽	135	0mm	Plated	
✧	896	0mm	Plated	
☆	14	1mm	Plated	
□	80	1mm	Plated	
○	4	3mm	Plated	
	1129 Total			