

A

B

C

D

A

B

C

D

Drill Table

Symbol	Count	Hole Size	Plated	Hole Tolerance
⊕	6	0.20mm	Plated	+/-0.08mm
◇	61	0.25mm	Plated	+/-0.08mm
⊞	15	0.30mm	Plated	+/-0.08mm
▽	7	0.60mm	Plated	
⊗	12	1.20mm	Plated	
✱	2	3.00mm	Plated	+/-0.08mm
103 Total				

Layer Stack Legend

Material	Layer	Thickness	Dielectric Material
	Top Overlay		
Surface Material	Top Mask	0.02mm	Solder Resist
Copper	Top Copper	0.04mm	
Prepreg		0.10mm	2313
Copper	GND	0.02mm	
Core		1.26mm	FR-4
Copper	PWR	0.02mm	
Prepreg		0.10mm	2313
Copper	Bottom Copper	0.04mm	
Surface Material	Bottom Mask	0.02mm	Solder Resist
	Bottom Overlay		

Total thickness: 1.60mm

Line #	Designator	Name	Quantity
	C1	CAP 10UF 10V 10% X5R 0603	1
	C2, C3, C8, C10, C15	22uF	5
	C4, C6, C7, C9, C19, C24	0.1uF	6
	C12, C13	1uF	2
	CN1	1054500101	1
	CN2	LiPo Battery	1
	CN3, CN4, CN5, CN6	XH-3A	4
	D1	40V 2A	1
	L1	10uH 1.9A	1
	LED1	G	1
	LED2	G	1
	Q1, Q3, Q5, Q6	2N7002	4
	Q2, Q4	MMBTA06	2
	R1, R2	1K	2
	R3, R4, R14, R15, R19, R20, R24, R25	0402WGF1002TCE	8
	R5, R17, R18, R22, R23, R26, R27	10K	7
	R6, R7, R13, R16	0.0	4
	R10, R11	5.1k	2
	R12	0.3	1
	R28, R29, R30, R31	33	4
	ST1	Shark Tooth	1
	SW2	MK-12D18-G020	1
	SW3	RST	1
	U1	TP5400-ESOP8	1
	U2	CH340C	1
	U3	600mA Fixed 3.3V	1
	U4	U/ESP-12F	1

Signal GTL

Dielectric

Signal G1

Dielectric

Signal G2

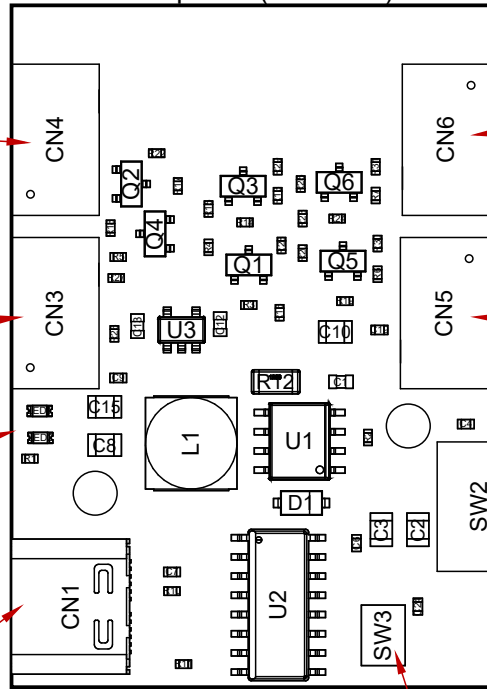
Dielectric

Signal GBL

Solder Mask GBS

Legend GBO

View from Top side (Scale 2:1)



View from Bottom side (Scale 2:1)

