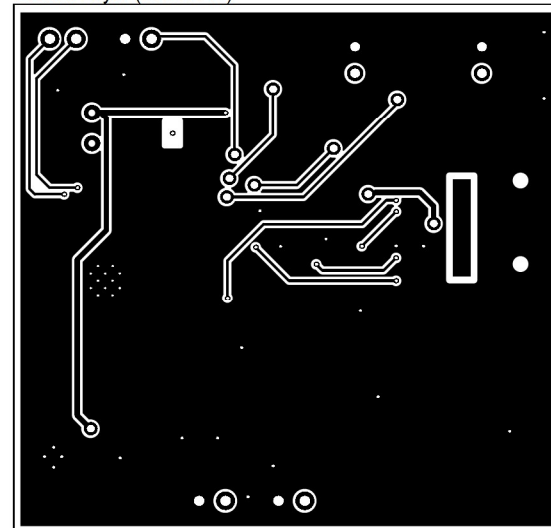
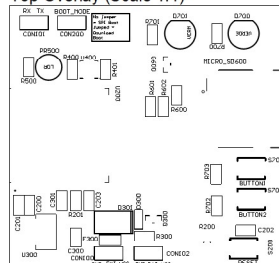


1

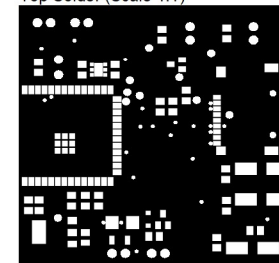
Bottom Layer (Scale: 2:1)



Top Overlay (Scale 1:1)



Top Solder (Scale 1:1)



2

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE				
		DIMENSIONS ARE IN INCHES	DRAWN	000	25/06/2022				
		TOLERANCES:	CHECKED			TITLE			
		FRACTIONAL ±	ENG APPR.						
		ANGULAR: MACH ± BEND ±	MFG APPR.						
		TWO PLACE DECIMAL ±							
		THREE PLACE DECIMAL ±				Datalogger			
		INTERPRET GEOMETRIC	Q.A.						
		TOLERANCING PER:	COMMENTS:						
		MATERIAL							
		FINISH				SIZE	DWG. NO.		
							1		
NEXT ASSY	USED ON								
APPLICATION		DO NOT SCALE DRAWING				SCALE:	1:1	WEIGHT:	SHEET 1 OF 4

Datalogger Layer Stackup

Layer Stack Legend

Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Top Overlay			Legend	GTO
	Surface Material	Top Solder	0.40mil	Solder Resist	Solder Mask GTS
Copper	Top Layer	1.40mil		Signal	GTL
		62.99mil	FR-4	Dielectric	
Copper	Bottom Layer	1.40mil		Signal	GBL
Surface Material	Bottom Solder	0.40mil	Solder Resist	Solder Mask	GBS
	Bottom Overlay			Legend	GBO
Total thickness: 66.59mil					

SPECIFICATIONS

LENGHT	51mm
WIDTH	53mm
LAYERS	2
MATERIAL	FR-4
MATERIAL MIN TG	130-140
TRACK WIDTH/CLEARANCE	8 mils / 8 mils
THICKNESS	1.6mm
COPPER THICKNESS	35um (1oz)
SOLDERMASK	YES, TOP
SOLDERMASK COLOR	RED
SILKSCREEN	YES, TOP
SILKSCREEN COLOR	WHITE
SURFACE FINISH	HASL
GOLD FINGERS	NO
CHAMFERING	NO
IMPEDANCE CONTROL	NO
HALF-CUT/CASTELLATED HOLES	NO
BURIED/BLIND VIAS	NO
VIAS FILLED WITH RESIN	NO
CARBON MASK	NO
COUNTERSINKS/COUNTERBORES	NO
Z-AXIS MILLING	NO
PEELABLE SOLDERMASK	NO

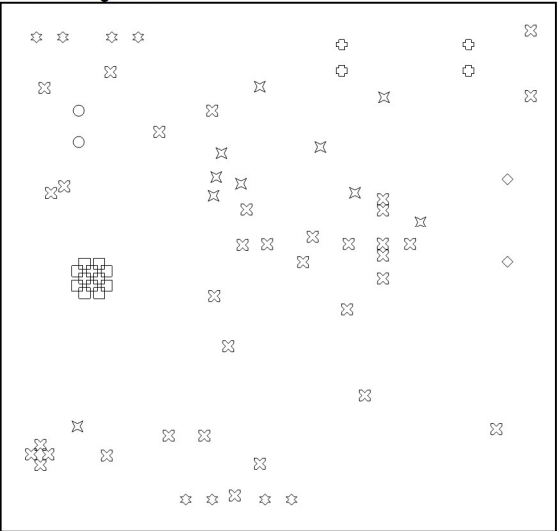
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF IS

PROPRIETARY AND CONFIDENTIAL

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	
		DIMENSIONS ARE IN INCHES	DRAWN	Oto	25/06/2022	
		TOLERANCES:	CHECKED			TITLE
		FRACTIONAL: ±	ENG APPR.			
		ANGULAR: MACH ± BEND ±	MFG APPR.			
		TWO PLACE DECIMAL ±	Q.A.			
		THREE PLACE DECIMAL ±	COMMENTS:			
		INTERPRET GEOMETRIC TOLERANCING PER:				
		MATERIAL				SIZE
		FINISH				DWG. NO.
NEXT ASSY	USED ON					1
APPLICATION		DO NOT SCALE DRAWING				SCALE: 1:1
						WEIGHT:
						SHEET 2 OF 6

Datalogger Drill Drawings

Drill Drawing View



- Note:
- 1 Text element with square border.
 - 2 Text element with no border
 - 3 Text element with circle border
 - 4 Text element with no border
 - 5 Text element with no border
 - 6 Text element with no border
 - 7 Text element with no border

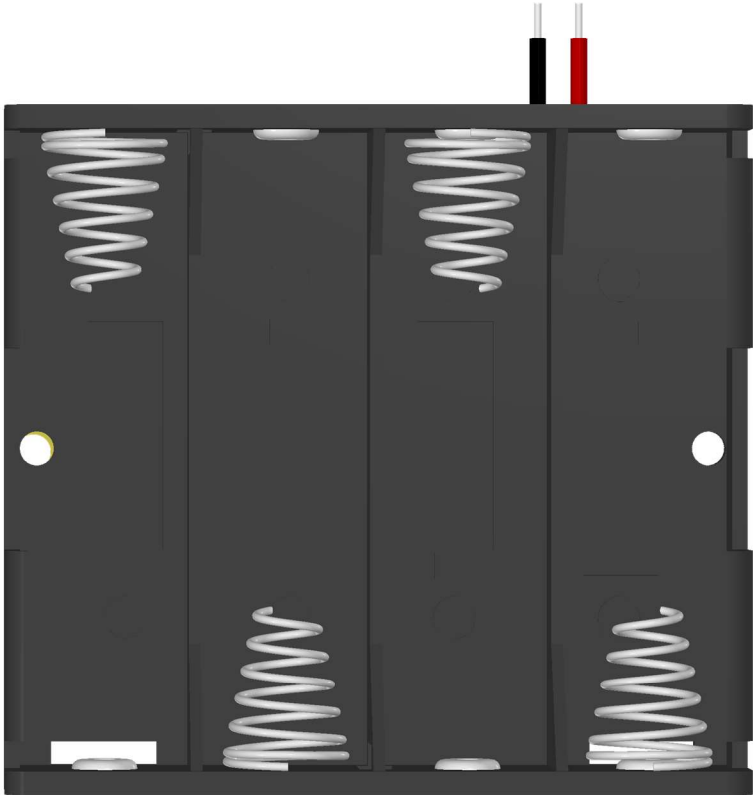
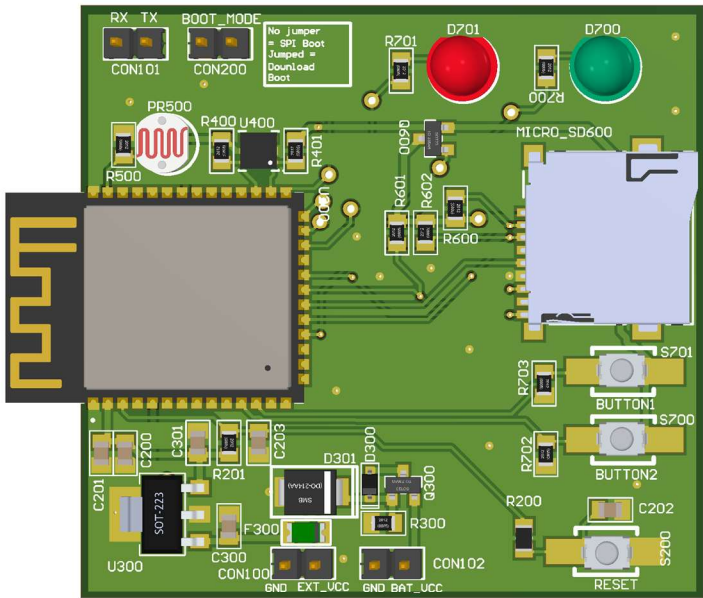
Drill Table

Symbol	Count	Hole Size	Plated	Hole Tolerance
▽	4	3.00	Plated	
◇	2	1.00	Non-Plated	
⊗	4	0.89	Plated	
○	2	0.66	Plated	
☆	8	0.97	Plated	
□	12	0.20	Plated	
⊠	34	0.25	Plated	
✕	10	0.71	Plated	

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF IS PROPRIETARY AND CONFIDENTIAL

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE			
		DIMENSIONS ARE IN INCHES	DRAWN	Oto	25/06/2022			
		TOLERANCES:	CHECKED			TITLE		
		FRACTIONAL±	ENG APPR.			Datalogger		
		ANGULAR: MACH± BEND ±	MFG APPR.					
		TWO PLACE DECIMAL ±	Q.A.					
		THREE PLACE DECIMAL ±	COMMENTS:					
		INTERPRET GEOMETRIC TOLERANCING PER:						
		MATERIAL				SIZE	DWG. NO.	
		FINISH				1		
NEXT ASSY	USED ON	DO NOT SCALE DRAWING				SCALE: 1:1	WEIGHT:	SHEET 3 OF 6
APPLICATION								

Datalogger 3D Realistic View

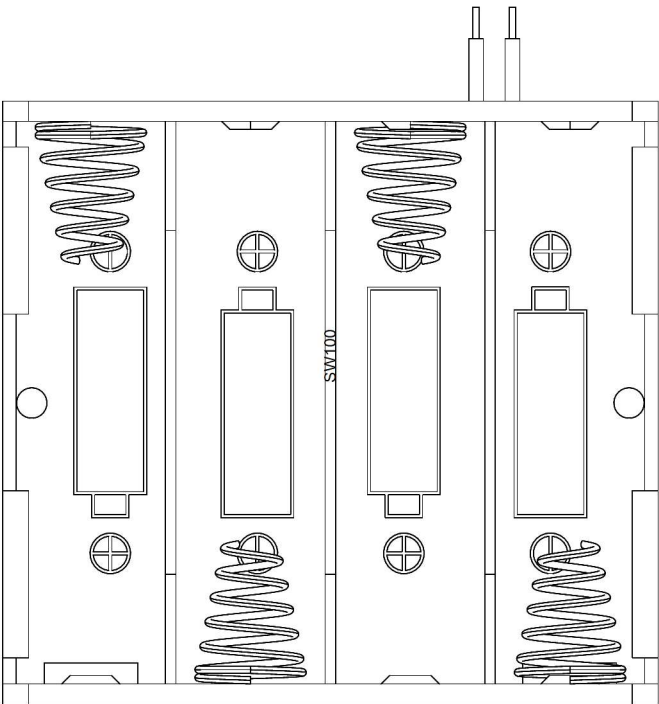
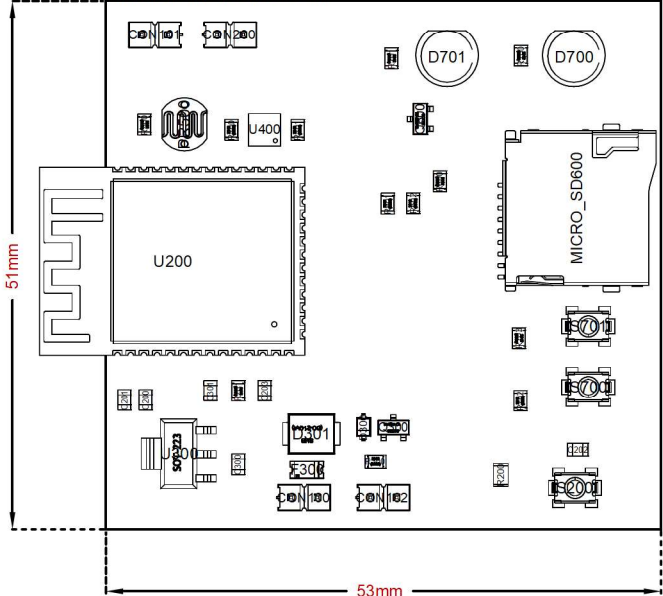


THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF IS PROPRIETARY AND CONFIDENTIAL

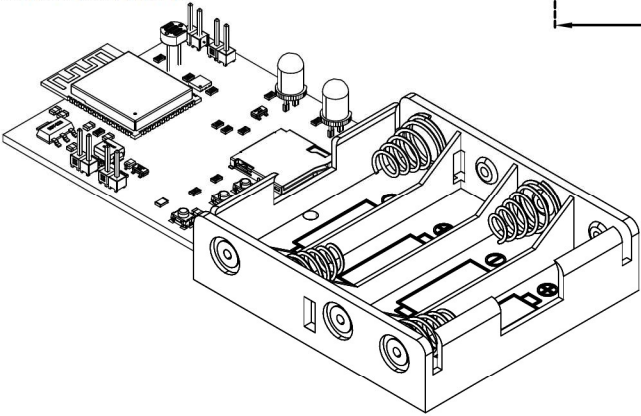
		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ± INTERPRET GEOMETRIC TOLERANCING PER: MATERIAL FINISH DO NOT SCALE DRAWING		NAME	DATE	TITLE Datalogger		
			DRAWN	Oto	25/06/2022			
			CHECKED					
			ENG APPR.					
			MFG APPR.			SIZE DWG. NO. 1		
			Q.A.					
			COMMENTS:			SCALE: 1:1	WEIGHT:	SHEET 4 OF 6
NEXT ASSY	USED ON	APPLICATION						

Datalogger Drawing View

View from Top side (Scale 2:1)



Isometric Vision Scale 1:1



THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF IS

PROPRIETARY AND CONFIDENTIAL

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE Datalogger		
		DIMENSIONS ARE IN INCHES TOLERANCES:	DRAWN	Oto	25/06/2022			
		FRACTIONAL ±	CHECKED					
		ANGULAR: MACH ± BEND ±	ENG APPR.					
		TWO PLACE DECIMAL ±	MFG APPR.					
		THREE PLACE DECIMAL ±				SIZE DWG. NO. 1		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.					
		MATERIAL	COMMENTS:					
		FINISH						
NEXT ASSY	USED ON	DO NOT SCALE DRAWING	SCALE: 1:1 WEIGHT: SHEET 5 OF 6					
APPLICATION								

Bill Of Materials

Bill Of Materials						
Line #	Designator	Name	Quantity	Manufacturer 1	Manufacturer Part Number 1	Supplier 1
	C200, C202, C203	CAP CER 0.1uF 100V X7R SMD 0805	3	Samsung	CL21B104KCFNNNE	LCSC
	C201	Capacitor 22uF +/-40% 16V 0805	1	Samsung	CL21A226MPQNNNE	LCSC
	C300, C301	4.7UF 16V	2	Samsung	CL21A475KAQNNNE	LCSC
	CON100, CON101, CON102, CON200	PIN HEADER 2POS	4	XFCN	PZ254V-11-02P	LCSC
	D300	SCHOTTKY 20V 1A	1	ON Semiconductor	NSR0320MW2T1G	LCSC
	D301	TVS 5VWM 9.2VC	1	Littelfuse	SMBJ5.0A	LCSC
	D700	LED GRN DIFF 5MM ROUND T/H	1	HONGLITRONIC (Hongli Zhihui (HONGLITRONIC))	HL-508H203BC	LCSC
	D701	LED RED DIFF 5MM ROUND T/H	1	EKINGLUX	EL504URC	LCSC
	F300	16VDC 0.75A	1	Shenzhen JDT Fuse	ASMD1206-035	LCSC
	MICRO_SD600	TF-01A	1	Yuandi	TF-01A	LCSC
	PR500	LDR GL5506(4-7K) SMD	1	Senba Sensing Tech	GL5528	LCSC
	Q300, Q600	IC MOSFET P_CHANNEL 20V 6A	2	Winsok Semicon	WST6225	LCSC
	R200	Resistor 0R +/- 1% 0805 125 mW	1	UNI-ROYAL(Uniroyal Elec)	0805W8J0000T5E	LCSC
	R201, R300, R500, R600, R601, R602	RES 10K OHM 1% 1/8W 0805 SMD, 10K 1/8W, 10K	6	UNI-ROYAL(Uniroyal Elec)	0805W8F1002T5E	LCSC
	R400, R401	RES 10K5 OHM 0.1% 1/8W 0805 SMD	2	UNI-ROYAL(Uniroyal Elec)	0805W8F1052T5E	LCSC
	R700, R701	RES 220R OHM 5% 1/8W 0805 SMD	2	UNI-ROYAL(Uniroyal Elec)	0805W8F2200T5E	LCSC
	R702, R703	RES 1K OHM 1% 1/8W 0805 SMD	2	UNI-ROYAL(Uniroyal Elec)	0805W8F1001T5E	LCSC
	S200, S700, S701	SWITCH TACTILE SPST-NO 0.05A 12V SMD, SWITCH	3	G-Switch	GT-TC060B-H025-L1	LCSC
	SW100	4AA Battery Holder	1	None	C9091	LCSC
	U200	IC ESP32 S3R2 WROOM-1 FLASH 8MB	1	Espressif Systems	ESP32-S3-WROOM-1-N8	Digi-Key
	U300	IC REG LDO 3V3 1A	1	Diodes	AP2114HA-3.3TRG1	LCSC
	U400	IC HDC1080	1	Texas Instruments	HDC1080DMBR	LCSC

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF IS PROPRIETARY AND CONFIDENTIAL

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE			
		DIMENSIONS ARE IN INCHES	DRAWN	Oto	25/06/2022			
		TOLERANCES:	CHECKED			TITLE		
		FRACTIONAL ±	ENG APPR.					
		ANGULAR: MACH ± BEND ±	MFG APPR.					
		TWO PLACE DECIMAL ±						
		THREE PLACE DECIMAL ±	Q.A.					
		INTERPRET GEOMETRIC TOLERANCING PER:	COMMENTS:					
		MATERIAL				SIZE	DWG. NO.	
		FINISH				1		
NEXT ASSY	USED ON	APPLICATION	DO NOT SCALE DRAWING			SCALE: 1:1	WEIGHT:	SHEET 6 OF 6