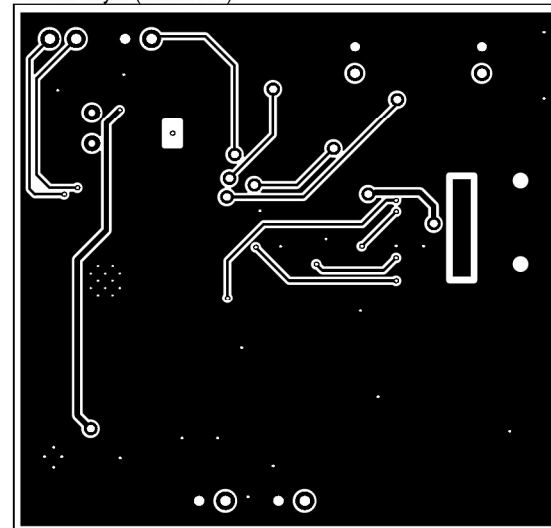
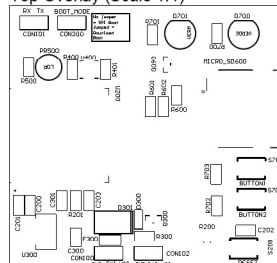


## 1

### Bottom Layer (Scale: 2:1)



Top Overlay (Scale 1:1)



2

		UNLESS OTHERWISE SPECIFIED
		DIMENSIONS ARE IN INCHES
		TOLERANCES:
		FRACTIONAL ±
		ANGULAR: MACH ± BEND ±
		TWO PLACE DECIMAL ±
		THREE PLACE DECIMAL ±
		INTERPRET GEOMETRIC TOLERANCING PER:
		MATERIAL
	NEXT ASSY	USED ON
		FINISH
	APPLICATION	DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES:  
FRACTIONAL ±  
ANGULAR: MACH ± BEND ±  
TWO PLACE DECIMAL ±  
THREE PLACE DECIMAL ±  
INTERPRET GEOMETRIC  
TOLERANCING PER:

	FINISH
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DO NOT SCALE DRAWING

D:		NAME	DATE		
DRAWN		OTTO	07/07/2022		
CHECKED				<div style="text-align: center;"> <b>TITLE</b>   Datalogger </div>	
ENG APPR.					
MFG APPR.					
Q.A.					
COMMENTS:					
				SIZE	DWG. NO.
					1
				SCALE: 1:1	WEIGHT:
				SHEET 1 OF 6	

# 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

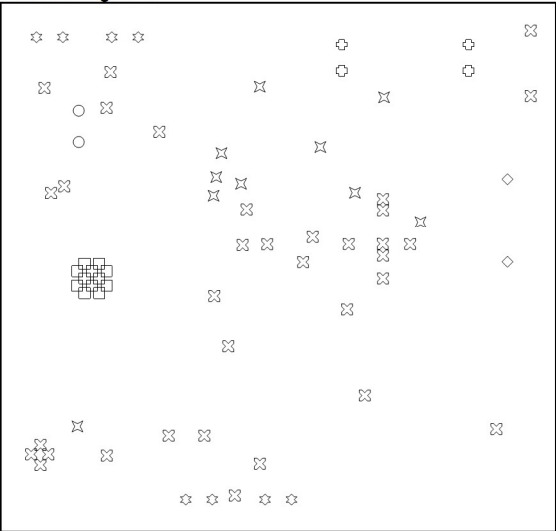
LENGHT	51mm
WIDTH	53mm
LAYERS	2
MATERIAL	FR-4
MATERIAL MIN TG	130-140
TRACK WIDTH/CLEARANCE	8 mils / 8 mils
THICKNESS	1.6mm
COPPER THICKNESS	35um (1oz)
SOLDERMASK	YES, TOP
SOLDERMASK COLOR	RED
SILKSCREEN	YES, TOP
SILKSCREEN COLOR	WHITE
SURFACE FINISH	HASL
GOLD FINGERS	NO
CHAMFERING	NO
IMPEDANCE CONTROL	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

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		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							
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

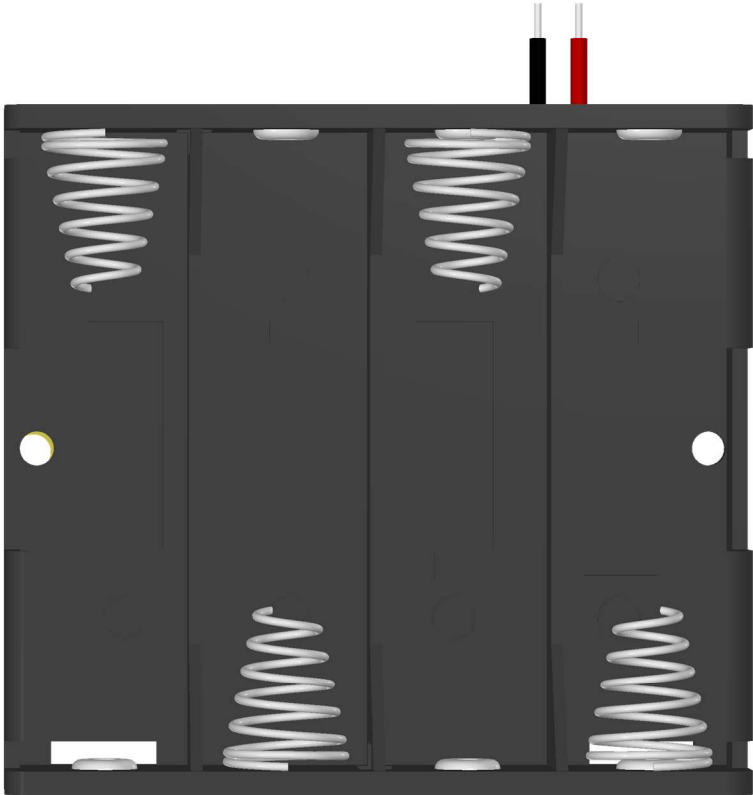
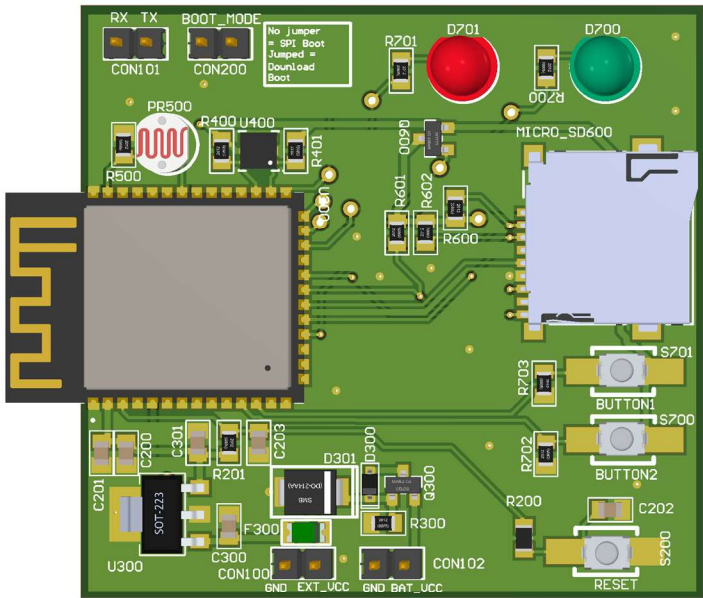
Drill Table

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

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		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

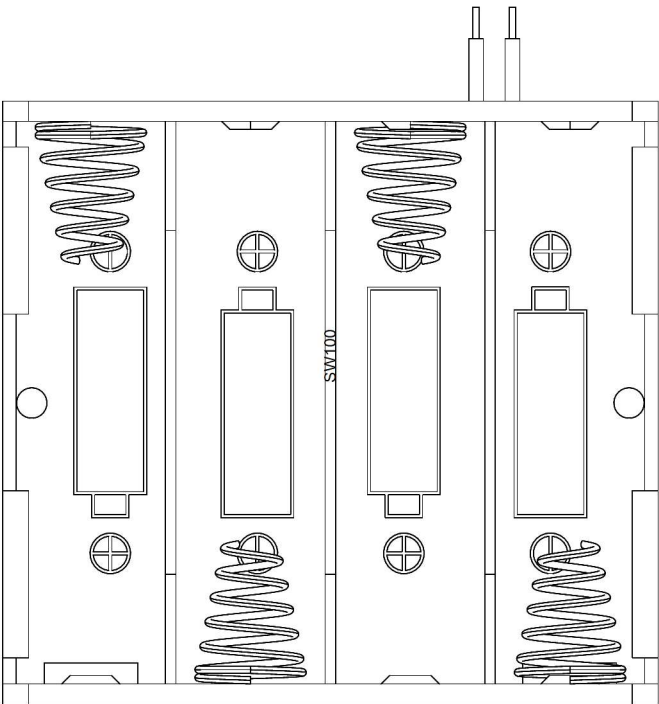
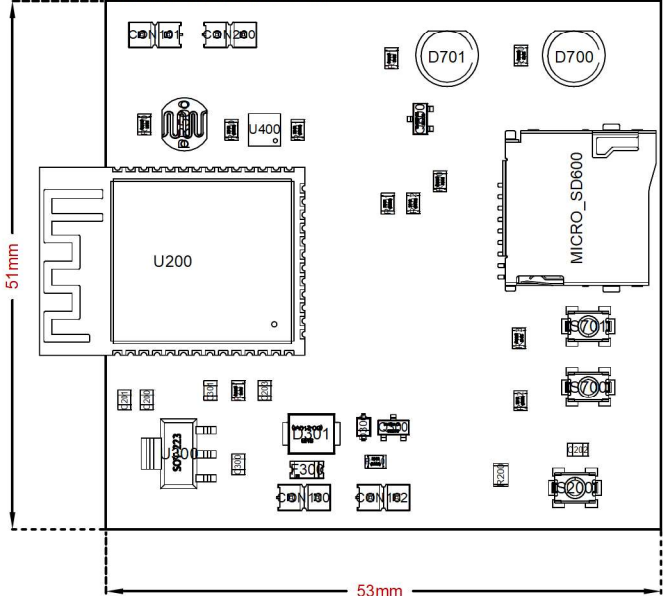


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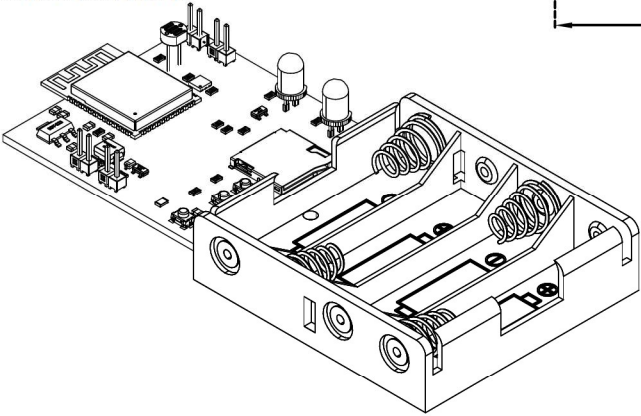
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		DIMENSIONS ARE IN INCHES	DRAWN	Oto	07/07/2022		
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		FRACTIONAL ±	ENG APPR.			Datalogger	
		ANGULAR: MACH ± BEND ±	MFG APPR.				
		TWO PLACE DECIMAL ±	Q.A.				
		THREE PLACE DECIMAL ±	COMMENTS:			SIZE	
		INTERPRET GEOMETRIC TOLERANCING PER:				DWG. NO.	
		MATERIAL				1	
		FINISH				SCALE: 1:1	
		DO NOT SCALE DRAWING				WEIGHT:	
						SHEET 4 OF 6	

# Datalogger Drawing View

View from Top side (Scale 2:1)



Isometric Vision Scale 1:1



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		ANGULAR: MACH ± BEND ±	ENG APPR.			Datalogger		
		TWO PLACE DECIMAL ±	MFG APPR.					
		THREE PLACE DECIMAL ±	Q.A.					
		INTERPRET GEOMETRIC TOLERANCING PER:	COMMENTS:					
		MATERIAL				SIZE	DWG. NO.	
						1		
NEXT ASSY	USED ON	FINISH						
APPLICATION		DO NOT SCALE DRAWING				SCALE: 1:1	WEIGHT:	SHEET 5 OF 6

Bill Of Materials

Bill Of Materials

Line #	Designator	Name	Quantity	Manufacturer 1	Manufacturer Part Number 1	Supplier 1
	C200, C203	0.1uF	2			RSComponents
	C201	Capacitor 22µF +/-40% 16V 0805	1	Samsung	CL21A226MPQNNNE	LCSC
	C202	CAP CER 0.1uF 100V X7R SMD 0805	1	Samsung	CL21B104KCFNNNE	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	GRN	1	HONGLITRONIC (Hongli Zhihui (HONGLITRONIC))	HL-508H203BC	LCSC
	D701	RED	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	0R	1	UNI-ROYAL(Uniroyal Elec)	0805W8J0000T5E	LCSC
	R201, R300, R500, R600, R601, R602	10K, 10K 1/8W	6	UNI-ROYAL(Uniroyal Elec)	0805W8F1002T5E	LCSC
	R400, R401	10K5	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-S3 WROOM-1	1			Digi-Key
	U300	IC REG LDO 3V3 1A	1	Diodes	AP2114HA-3.3TRG1	LCSC
	U400	IC HDC1080	1	Texas Instruments	HDC1080DMBR	LCSC

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		MATERIAL				SIZE	DWG. NO.	
		FINISH				1		
NEXT ASSY	USED ON	APPLICATION	DO NOT SCALE DRAWING			SCALE: 1:1	WEIGHT:	SHEET 6 OF 6