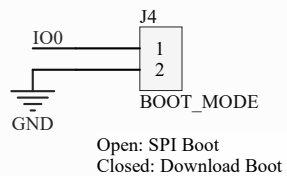
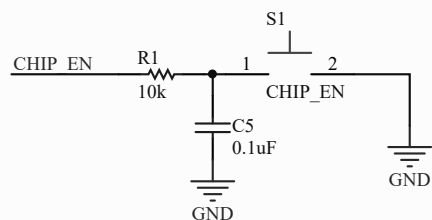


Comment	Description	Designator	Footprint	LibRef	Quantity	Capacitance	Manufacturer Part Number	PartType	Power Rating	Voltage Rating (DC)
0.1uF	0402 0.1 uF 25 V ±10% Tolerance XSR SMT Multilayer Ceramic Capacitor	C1	PCB- 5bhgladqzrhg14 063g-1	CMP- 76b0bfb95be4a97 7-1	1	100 nF	TMK105BJ104KV-F	0.1uF		25.0 V
22uF	LMK218J220M6-1 TAIVO YU DEN CERAMIC CAPACITOR 22U F 20% 10V XSR 0805 RoHS	C2		CMP- 3afbf396deb1e53c- 2	1			22uF		10.0 V
0.1uF	0402 0.1 uF 10 V ±10 % Tolerance XSR Surface Mount Multilayer Ceramic Capacitor	C3	0402C	CMP-19299680-6	1	100 nF	GRM155R61A104K A010	0.1uF		10.0 V
10uF	CAP CER 10UF 10V 10% XSR 0805	C4	PCB-19299738-1	CMP-19299738-2	1	1e-05 F	GRM218R61A10K F19L	10uF		10.0 V
0.1uF	0.1uF, ±10%, 50V, X7R, 0805, Multilayer Ceramic Capacitor	C5	PCB- pyggtdkf3easynjd q4r-1	CMP-2758844-5	1	100 nF	CL21B104KBCNN C	0.1uF		50.0 V
JV3_PWR	1.6 x 0.8 x 0.4 mm (0603) Red 120° Min 11.5mcd Max 28.5mcd SMT LED	D1	KING-LED0603-25- RED_V	CMP- 20cce801131f80b- 3	1		19-217/R6C- AL1M2V5JT	JV3_PWR		
5V_PWR	1.6 x 0.8 x 0.4 mm (0603) Red 120° Min 11.5mcd Max 28.5mcd SMT LED	D2	KING-LED0603-25- RED_V	CMP- 20cce801131f80b- 3	1		19-217/R6C- AL1M2V5JT	5V_PWR		
PWR_IN	DC Power Connectors DC POWER JACK 2.5MM PIN TYPE	J1	ADAM-ADC-002- 3_V	CMP-3153101-9	1		ADC-002-2	PWR_IN		
ADC0	Conn Unshrouded Header HDR 3 POS 2.54mm Solder ST Thru-Hole	J2	PCB- x9jnxfk0tsn3lp09z ze-1	CMP- 5821934eb82787e 6-1	1		4-103321-5	ADC0		
ADC4	Conn Unshrouded Header HDR 3 POS 2.54mm Solder ST Thru-Hole	J3	PCB- x9jnxfk0tsn3lp09z ze-1	CMP- 5821934eb82787e 6-1	1		4-103321-5	ADC4		
BOOT_MODE	2 pin male header straight tht	J4	Jumper	CMP- 08fac3900112d73d 14	1			BOOT_MODE		
ADC1	Conn Unshrouded Header HDR 3 POS 2.54mm Solder ST Thru-Hole	J5	PCB- x9jnxfk0tsn3lp09z ze-1	CMP- 5821934eb82787e 6-1	1		4-103321-5	ADC1		
ADC5	Conn Unshrouded Header HDR 3 POS 2.54mm Solder ST Thru-Hole	J6	PCB- x9jnxfk0tsn3lp09z ze-1	CMP- 5821934eb82787e 6-1	1		4-103321-5	ADC5		
ADC2	Conn Unshrouded Header HDR 3 POS 2.54mm Solder ST Thru-Hole	J7	PCB- x9jnxfk0tsn3lp09z ze-1	CMP- 5821934eb82787e 6-1	1		4-103321-5	ADC2		
ADC6	Conn Unshrouded Header HDR 3 POS 2.54mm Solder ST Thru-Hole	J8	PCB- x9jnxfk0tsn3lp09z ze-1	CMP- 5821934eb82787e 6-1	1		4-103321-5	ADC6		
ADC3	Conn Unshrouded Header HDR 3 POS 2.54mm Solder ST Thru-Hole	J9	PCB- x9jnxfk0tsn3lp09z ze-1	CMP- 5821934eb82787e 6-1	1		4-103321-5	ADC3		
ADC7	Conn Unshrouded Header HDR 3 POS 2.54mm Solder ST Thru-Hole	J10	PCB- x9jnxfk0tsn3lp09z ze-1	CMP- 5821934eb82787e 6-1	1		4-103321-5	ADC7		
UART	Conn Unshrouded Header HDR 4 POS 2.54mm Solder ST Thru-Hole KK07 Bag	J11	PCB- w7fgx0p37qgww1 etoafk-1	CMP- 4d818464dcf59236- 2	1		0022032041	UART		
JTAG	Conn Unshrouded Header HDR 4 POS 2.54mm Solder ST Thru-Hole KK07 Bag	J12	PCB- w7fgx0p37qgww1 etoafk-1	CMP- 4d818464dcf59236- 2	1		0022032041	JTAG		
DHT1	Conn Unshrouded Header HDR 3 POS 2.54mm Solder ST Thru-Hole	J13	PCB- x9jnxfk0tsn3lp09z ze-1	CMP- 5821934eb82787e 6-1	1		4-103321-5	DHT1		
DHT3	Conn Unshrouded Header HDR 3 POS 2.54mm Solder ST Thru-Hole	J14	PCB- x9jnxfk0tsn3lp09z ze-1	CMP- 5821934eb82787e 6-1	1		4-103321-5	DHT3		
DHT2	Conn Unshrouded Header HDR 3 POS 2.54mm Solder ST Thru-Hole	J15	PCB- x9jnxfk0tsn3lp09z ze-1	CMP- 5821934eb82787e 6-1	1		4-103321-5	DHT2		
DHT4	Conn Unshrouded Header HDR 3 POS 2.54mm Solder ST Thru-Hole	J16	PCB- x9jnxfk0tsn3lp09z ze-1	CMP- 5821934eb82787e 6-1	1		4-103321-5	DHT4		
USB_OTG	2 pin male header straight tht	J17	Jumper	CMP- 08fac3900112d73d 14	1			USB_OTG		
10k	RC Series 0402 0.063 W 0 Ohms Jumper Surface Mount Thick Film Chip Resistor	R1, R4	PCB- hac76j7vlyitqb0b 7i-1	CMP- 1974d512ef63c6b3 9e0-1	2		CRGCQ0603J10K	10k		
0	Thick Film Resistors - SMD 0402 620ohms 5% Tol	R2, R3	PCB- azzhouwj1h0rqop j65ny-1	CMP-13527731-11	2			0		
620	RES SMD 1K OHM 5% 1/16W 0402	R5	RESC1005K40X25N L05T05	CMP-3676372-2	1		ERJ-2GEJ621X	620	0.1 W	50.0 V
1k	RES SMD 1K OHM 5% 1/16W 0402	R6	RESC1005K40X25N L05T05	CMP-1903935-2	1		CRCW04021K00N1 TD	1k	0.063 W	50.0 V
CHP_EN	Switch Tactile Spt No 0.02a 15v	S1	PCB- hac76j7vlyitqb0b 7i-1	CMP- 12abf024869dedc- 2	1			CHP_EN		
ESP32-S2-WROOM	DMD Module ESP32-S2-WROOM	U1	PCBComponent_1	CMP- dac215a1cbe3050 4-2	1			ESP32-S2-WROOM		
LD1117S33CTR	Fixed Low Drop Reg	U2	SOT-223_N	CMP-1170392-2	1		LD1117S33CTR			

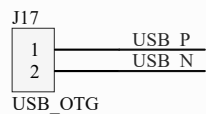
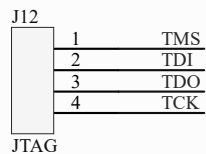
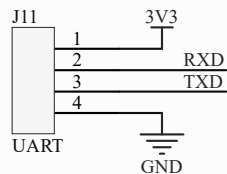
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B

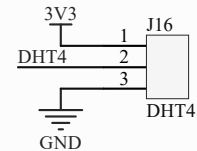
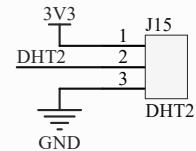
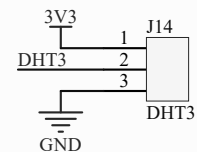
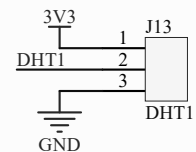
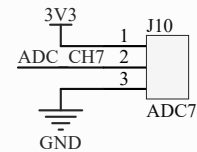
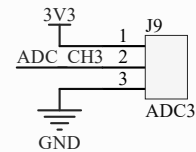
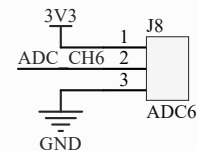
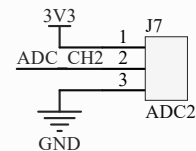
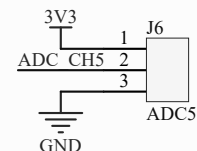
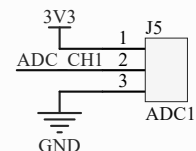
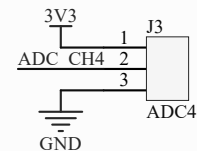
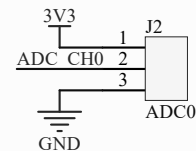


C



D

0-3V input on ADC pins



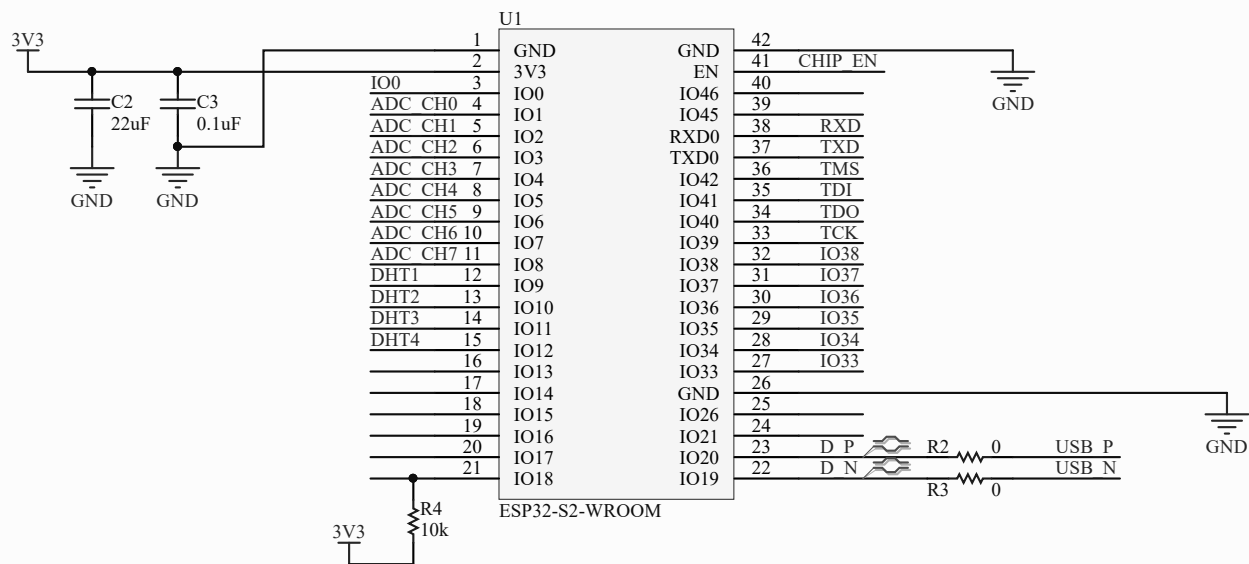
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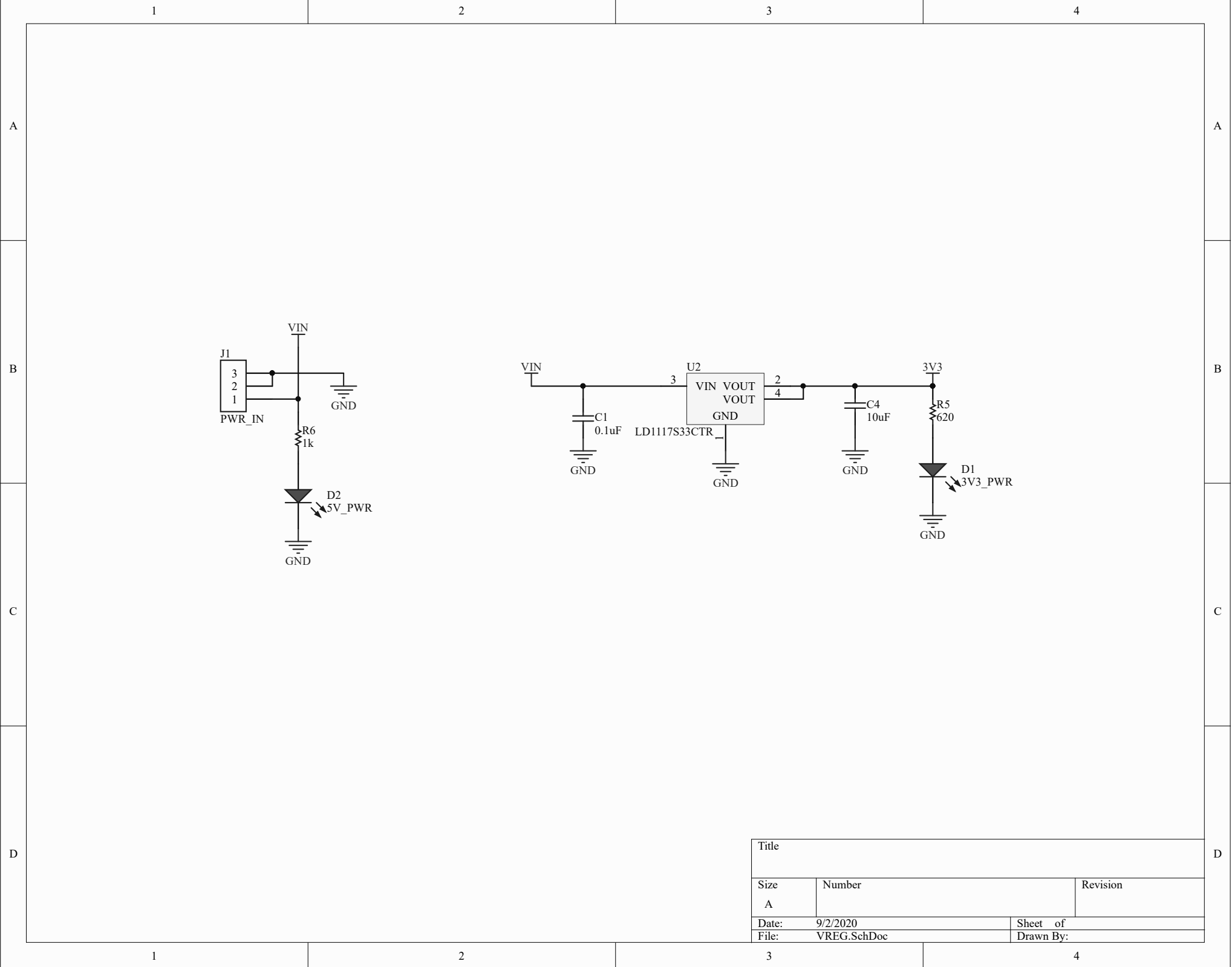
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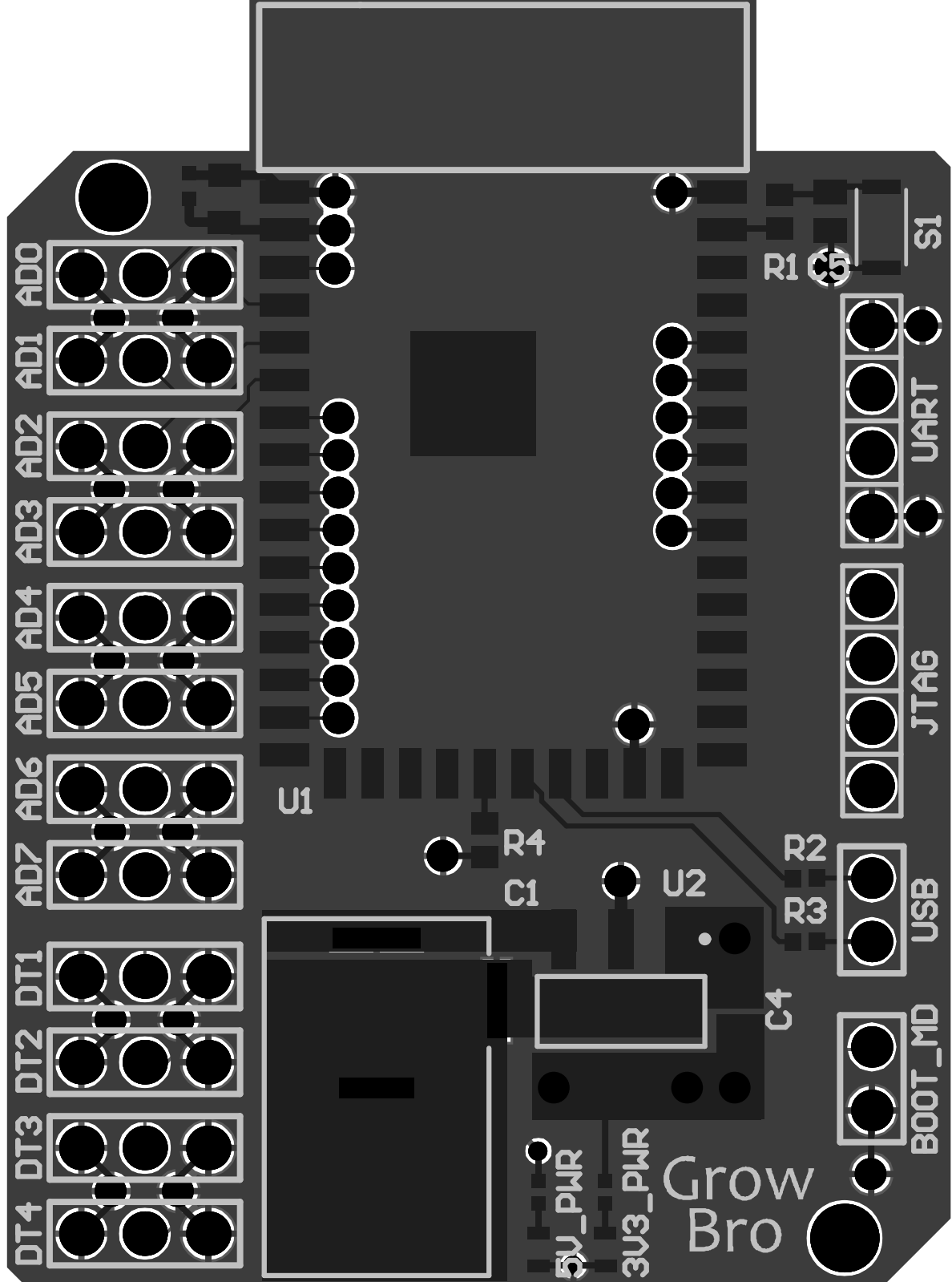
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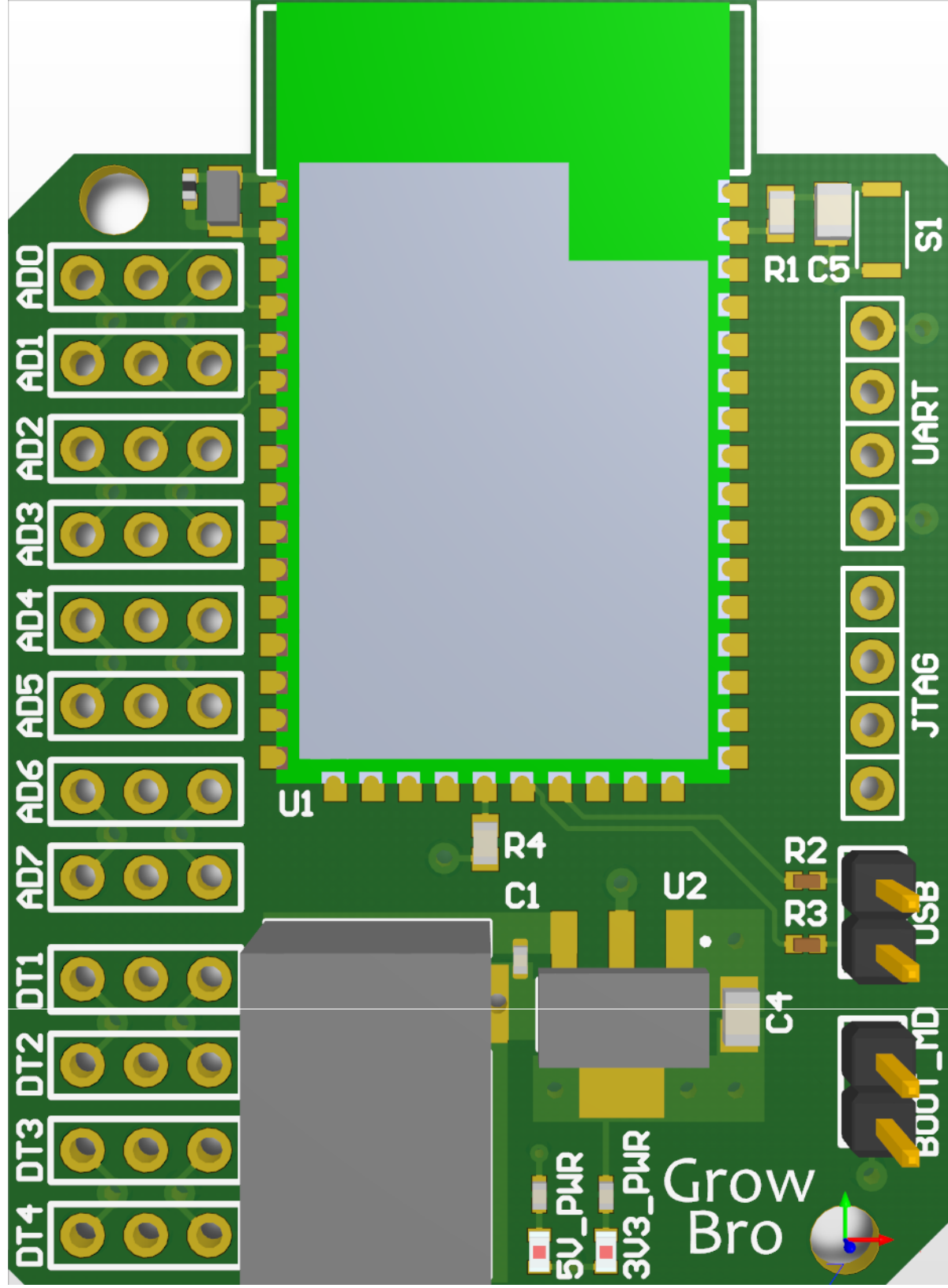
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Size	Number	Revision
A		
Date:	9/2/2020	Sheet of
File:	Connectors.SchDoc	Drawn By:



Title		
Size A	Number	Revision
Date:	9/2/2020	Sheet of
File:	ESP32.SchDoc	Drawn By:







Design Rules Verification Report

Filename : C:\ProgramData\Altium\CircuitMaker {20690677-D4FD-4CB7-A4E9-00349D86A8F9}\Projects\354A3A29-DB29-4F35-BFF8-C48B12B8DA4F\9af71a97-391e-4871-9404-d275b6deef61\PCB1.CMPcbDoc

Warnings 0
Rule Violations 0

Warnings	
Total	0

Rule Violations	
Unpoured Polygon (Allow unpoured: False)	0
Silk primitive without silk layer	0
Silk to Silk (Clearance=6mil) (All),(All)	0
Silk To Solder Mask (Clearance=6mil) (IsPad),(All)	0
Minimum Solder Mask Sliver (Gap=2mil) (All),(All)	0
Hole To Hole Clearance (Gap=22mil) (All),(All)	0
Height Constraint (Min=0mil) (Max=1000mil) (Preferred=500mil) (All)	0
Hole Size Constraint (Min=8mil) (Max=248mil) (All)	0
Un-Routed Net Constraint (All)	0
Short-Circuit Constraint (Allowed=No) (All),(All)	0
Power Plane Connect Rule(Relief Connect)(Expansion=20mil) (Conductor Width=10mil) (Air Gap=10mil) (Entries=4)	0
Width Constraint (Min=5mil) (Max=20mil) (Preferred=5mil) (All)	0
Clearance Constraint (Gap=6mil) (All),(All)	0
Net Antennae (Tolerance=0mil) (All)	0
Total	0

Electrical Rules Check Report

Class	Document	Message
Warning	Connectors.SchDoc	Off grid Net Label USB_N at 236.305,190
Warning	Connectors.SchDoc	Off grid Net Label USB_P at 236.305,200
Warning	Connectors.SchDoc	Part J4 is not linked to Octopart
Warning	Connectors.SchDoc	Part J17 is not linked to Octopart
Warning	Connectors.SchDoc	Part S1 is not linked to Octopart
Warning	ESP32.SchDoc	Part U1 is not linked to Octopart