

TITLE:		OHMv1_MASTER_R0.5_BOM			Production Qty					1				
VOIDRON CO.					Assembly Material Cost					0				
					Any Other Charges					0				
					Product Cost					0				
CREATED BY:		AS / MK	FILE:	OHMv1_MASTER_BOM_240111	Production Cost					0				
DATE:		11-Jan-2024	SHEETS:	TWO	Production Cost					0				
ITEM	REF-DES	PART TYPE	PART CODE	DESCRIPTION	PINS	PACKAGE	QTY (x 1)	QTY (x N)	SOLDER POINTS	MFG.	MOQ	UNIT PRICE	ORDER QTY	SUB-TOTAL
1	R302 R401-408 R501-508	Resistor	0E	Resistor SMD 0 OHM 5% 1/10W 0805	2	'0805	17	17	34	Any	1			
2	C201-208 C303 C306-307 C310 C313-314 C317-319 C405 C411 C505 C511	Capacitor	100NF	Ceramic Capacitor 100NF 50V ±10% 0805	2	'0805	21	21	42	Any	1			
3	C302 C304-305 C308-309 C320-321	Capacitor	10UF	Tantalum Capacitor 10UF 20V ±10% 1206	2	'1206	7	7	14	Any	1			
4	L301-303	Inductor	10UH	10UH SMD Inductor SMD 1206	2	'1206	3	3	6	Any	1			
5	R301	Resistor	10K	Resistor SMD 10K OHM 5% 1/10W 0603	2	'0603	1	1	2	Any	1			
6	C311-312 C315-316 C406 C412 C506 C512	Capacitor	22PF	Ceramic Capacitor 22PF 50V ±10% 0805	2	'0805	8	8	16	Any	1			
7	R409-411	Resistor	22E	Resistor SMD 22E OHM 5% 1/10W 0805	2	'0805	3	3	6	Any	1			
8	C401-404 C407-410 C501-504 C507-510	Capacitor	33NF	Ceramic Capacitor 33NF 50V ±10% 0805	2	'0805	16	16	32	Any	1			
9	C301	Capacitor	4.7UF	Tantalum Capacitor 4.7UF 16V ±10% 1206	2	'1206	1	1	2	Any	1			
10	U403 U503	ADC	ADC128S102CIMTX_N OPB	12BIT ADC Converter 8 Input 1 SAR TSSOP16	16	TSSOP-16	2	2	4	Any	1			
11	U201-203	Isolator	ADUM240E0BRWZ	Digital Isolator 5000VRMS 4CH SOIC-16	16	SOIC-16	3	3	6	Any	1			
12	U204	Isolator	ADUM241E1BRIZ	Digital Isolator 5000VRMS 4CH SOIC-16	16	SOIC-16	1	1	2	Any	1			
13	J301	CONNECTOR	2.54MM 10P VERTICAL JST CONNECTOR	Connector Header Vert 10P 2.54MM	10	2.54MM 10P	1	1	2	Any	1			

14	J101-102	CONNECTOR	2.54MM 24P FEMALE BERG STRIP	24P FEMALE TYPE BERG STRIP CONNECTOR 2.54MM	24	2.54MM 10P	2	2	4	Any	1			
15	J501	CONNECTOR	DB37	DB37 R/A 37P Female 2.77mm	37	69.3mm x 18.3mm	1	1	2	Any	1			
16	D301	LED	Red LED 0805	General purpose Red LED 0805	2	'0805	1	1	2	Any	1			
17	U302	Regulator	LM1117-3.3	Linear Regulator 3.3V 800MA SOT223	4	SOT223	1	1	2	Any	1			
18	U401-402 U501-502	Op-amp	MCP604	IC CMOS 4 CIRCUIT 14-TSSOP	14	TSSOP-14	4	4	8	Any	1			
20	U301	DC DC CONVERTER	RKZE-0505D	DC DC CONVERTER +/-5V 2W THT	7	THT 7 SIP-5P	1	1	2	Any	1			
21	U101	Teensy Board	DEV-16771	Teensy 4.1 ARM Cortex M7 1024K RAM	48	60.96mm x 17.78mm	1	1	2	Any	1			
22	-	PCB	OHMv1_MASTER_R0.5_P CB_240111	Two layer 75mm x 35mm FR4 1.6mm thick 35u Cu black solder mask white legend	0	75mm x 35mm	1	1	0	Any Professional	1			

Note:

1. Please make prototypes first before proceeding towards production.