|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **TITLE:** | | OHMv1\_MASTER\_R0.5\_BOM | | | **Production Qty** | | |  |  |  | 1 | |  |  |
| **VOIDRON CO.** | | | | | **Assembly Material Cost** | | |  |  |  | 0 | |  |  |
| **Any Other Charges** | | |  |  |  | 0 | |  |  |
| **CREATED BY:** | | AS / MK | **FILE:** | OHMv1\_MASTER\_BOM\_240111 | **Product 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 1% 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 | 1K | Resistor SMD 1K OHM 1% 1/10W 0603 | 2 | '0805 | 1 | 1 | 2 | Any | 1 |  |  |  |
| 6 | C311-312  C315-316  C406 C412  C506 C512 | Capacitor | 1UF | Ceramic Capacitor 1UF 50V ±10% 0805 | 2 | '0805 | 8 | 8 | 16 | Any | 1 |  |  |  |
| 7 | R409-411 | Resistor | 22E | Resistor SMD 22E OHM 1% 1/10W 0805 | 2 | '0805 | 3 | 3 | 6 | Any | 1 |  |  |  |
| 8 | C401-404  C407-410  C501-504 C507-510 | Capacitor  NOT-MOUNT | 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 |  |  |  |

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| 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 100mm FR4 1.6mm thick 35u Cu  black solder mask white legend | 0 | 75mm x 100mm | 1 | 1 | 0 | Any Professional | 1 |  |  |  |
| **Note:**  **1.** Please make prototypes first before proceeding towards production. | | | | | | | | | | | | | | |