

## Bill Of Materials for AABATTEST\_SIMPLE\_SCH

### 0 Modules

| <u>Quantity</u> | <u>References</u> | <u>Value</u> | <u>description</u> |
|-----------------|-------------------|--------------|--------------------|
|-----------------|-------------------|--------------|--------------------|

Sub-totals:

### 8 Capacitors

| <u>Quantity</u> | <u>References</u> | <u>Value</u> | <u>description</u> |
|-----------------|-------------------|--------------|--------------------|
|-----------------|-------------------|--------------|--------------------|

|   |       |       |                   |
|---|-------|-------|-------------------|
| 8 | C1-C8 | 0.47u | Capacitor SMD1206 |
|---|-------|-------|-------------------|

Sub-totals:

### 16 Resistors

| <u>Quantity</u> | <u>References</u> | <u>Value</u> | <u>description</u> |
|-----------------|-------------------|--------------|--------------------|
|-----------------|-------------------|--------------|--------------------|

|   |                     |     |                     |
|---|---------------------|-----|---------------------|
| 1 | R1                  | 6K8 | Resistpr SMD1206    |
| 6 | R2,R4,R8-R9,R15-R16 | 10K | Resistpr SMD1206    |
| 4 | R3,R6,R10,R12       | 0.3 | Resistor 1W SMD2512 |
| 4 | R5,R7,R11,R13       | 1   | Resistor 1W SMD2512 |
| 1 | R14                 | 330 | Resistor 1W SMD2512 |

Sub-totals:

### 8 Integrated Circuits

| <u>Quantity</u> | <u>References</u> | <u>Value</u> | <u>description</u> |
|-----------------|-------------------|--------------|--------------------|
|-----------------|-------------------|--------------|--------------------|

|   |             |           |  |
|---|-------------|-----------|--|
| 2 | U1,U4       | LM358N    | Dual Operational Amplifiers                            |
| 4 | U2-U3,U6-U7 | INA219AID | Bidirectional Current/Power Monitor With I2C Interface |
| 1 | U5          | 24C32A    | EEPROM   |
| 1 | U8          | PCF8574   | I2C LCD Driver   |

Sub-totals:

### 9 Transistors

| <u>Quantity</u> | <u>References</u> | <u>Value</u> | <u>description</u> |
|-----------------|-------------------|--------------|--------------------|
|-----------------|-------------------|--------------|--------------------|

|   |                |          |                     |
|---|----------------|----------|---------------------|
| 5 | Q1-Q2,Q5-Q6,Q9 | ZVN3310F | N-CHANNEL FET SOT23 |
| 4 | Q3-Q4,Q7-Q8    | IRL2910  | N-CHANNEL TO254     |

Sub-totals:

### 15 Miscellaneous

| <u>Quantity</u> | <u>References</u> | <u>Value</u> | <u>description</u> |
|-----------------|-------------------|--------------|--------------------|
|-----------------|-------------------|--------------|--------------------|

|   |         |                 |                            |
|---|---------|-----------------|----------------------------|
| 4 | B1-B4   | 1.5V            | AAA+AA BATTERY HOLDER      |
| 2 | D1-D2   | 1N4148          | SMD Diode TS4148           |
| 1 | D3      | LED-RED         | LED 54MM                   |
| 1 | J1      | AU-Y1007-R      | USB CONNECTOR PN87520 BERG |
| 1 | LCD1    | LCD 20X4 V2     | LCD Display                |
| 1 | NANO1   | ARDUINO NANO V2 |                            |
| 2 | RV1-RV2 | 1k8             | MULTITURN POENTIOMETER     |
| 3 | SW1-SW3 |                 | TACTILE SWITCH B3F-10XX    |

Sub-totals: