

**GMSN! Pure Quantiser BoM 20161103**

| Module | Item Number | Qty | RefDes  | Description                  | Value                  | Manufacturer      | Manufacturer P/N    | RS P/N    | Mouser P/N           | Package     | Other Vendor | Other P/N |
|--------|-------------|-----|---|------------------------------|------------------------|-------------------|---------------------|-----------|----------------------|-------------|--------------|-----------|
| Quant  | 1           | 1   | PCB   | PCB                          |                        | GMSN!             | m-p-quant-v2-pcb    |           |                      |             |              |           |
| Quant  | 2           | 2   | D1, D2  | Diode                        | 1N4001                 | Generic           |                     | 485-8465  | 511-STTH102A         | SMADIODE    |              |           |
| Quant  | 3           | 12  | D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14 | Diode                        | 1N914                  | Generic           |                     | 805-1021  | 512-1N914BWS         | SOD-323     |              |           |
| Quant  | 4           | 4   | R9, R10, R11, R14                                   | Resistor, 1%                 | 100K                   | Generic           |                     | 223-0691  | 71-CRCW0805-100K-E3  | R0805       |              |           |
| Quant  | 5           | 3   | R19, R20, R21                                       | Resistor, 1%                 | 100R                   | Generic           |                     | 901-3689  | 71-CRCW0805100RFKEB  | R0805       |              |           |
| Quant  | 5           | 1   | R1  | Resistor, 1%                 | 200R                   | Generic           |                     |           |                      | R0805       |              |           |
| Quant  | 6           | 6   | R2, R3, R15, R16, R17, R18                          | Resistor, 1%                 | 10K                    | Generic           |                     | 901-3692  | 71-CRCW0805-10K-E3   | R0805       |              |           |
| Quant  | 7           | 1   | R8  | Resistor, 1%                 | 1K                     | Generic           |                     | 223-0427  | 71-CRCW0805-1.0K-E3  | R0805       |              |           |
| Quant  | 7           | 1   | R4  | Resistor, 1%                 | 0R                     | Generic           |                     |           |                      | R0805       |              |           |
| Quant  | 8           | 2   | R6, R7  | Resistor, 1%                 | 1M                     | Generic           |                     | 901-3709  | 71-CRCW0805-1.0M-E3  | R0805       |              |           |
| Quant  | 10          | 1   | R5  | Resistor, 1%                 | 1k5                    | Generic           |                     | 679-1014  | 71-CRCW0805-1.5K-E3  | R0805       |              |           |
| Quant  | 11          | 2   | R12, R13  | Resistor, 1%                 | 49K9                   | Generic           |                     | 679-1468  | 71-CRCW0805-49.9K-E3 | R0805       |              |           |
| Quant  | 12          | 1   | C9  | Multilayer Ceramic Capacitor | 0.01u                  | Generic           |                     | 915-9246  | 80-C0805C103K5G      | C0805K      |              |           |
| Quant  | 13          | 9   | C3, C7, C8, C10, C11, C12, C13, C14, C15            | Multilayer Ceramic Capacitor | 0.1u                   | Generic           |                     | 669-8877  | 80-C0805C104M5R      | C0805K      |              |           |
| Quant  | 15          | 2   | C1, C2  | Multilayer Ceramic Capacitor | 22p                    | Generic           |                     | 464-6587  | 80-C0805C220J5G      | C0805K      |              |           |
| Quant  | 16          | 1   | C6  | Multilayer Ceramic Capacitor | 47p                    | Generic           |                     | 264-4270  | 80-C0805C470J5G      | C0805K      |              |           |
| Quant  | 17          | 3   | C4, C5, C26   | Electrolytic Capacitor       | 10u                    | Generic           |                     | 737-9704  | 80-EDK106M050A9GAA   | 153CLV-0505 |              |           |
| Quant  | 18          | 1   | U4  | Voltage Regulator            |                        | 7805 Generic      |                     | 263-9739A | 755-BA178M05FP-E2    | V-REG       |              |           |
| Quant  | 19          | 1   | Q1  | CRYSTAL                      | 20MHz                  | Generic           |                     | 814-9541  | 449-LFXTAL003181REEL | HC49UP      |              |           |
| Quant  | 20          | 1   | U1  | 32-Pin Atmega328             | ATMEGA328P             | ATMEL             | ATMEGA328P-AU       | 696-3092  | 556-ATMEGA328P-AU    | TQFP32-08   |              |           |
| Quant  | 21          | 1   | U6  | MCP602                       | DUAL_OPAMP             | Texas Instruments |                     | 889-5213  | 579-MCP602ISN        | DUAL_OPAMP  |              |           |
| Quant  | 22          | 1   | U5  | 12b ADC                      | MCP3202_SMD            | Microchip         | MCP3202-BI/SN       | 770-9745  | 579-MCP3202BISN      | SOIC--8     |              |           |
| Quant  | 23          | 1   | U2  | DAC                          | MCP4921                | Microchip         | MCP4921-E/SN        | 876-7199  | 579-MCP4921-E/SN     | SOIC8       |              |           |
| Quant  | 24          | 1   | U3  | TL074                        | QUAD_OPAMP             | Texas Instruments | TL074IDR            | 661-0076  | 595-TL074IDR         | QUAD_OPAMP  |              |           |
| Quant  | 25          |     | ISP1  | 2x3 Header                   |                        | Generic           |                     |           | 571-4-146262-1       |             | TME          | ZL202-6G  |
| Quant  | 26          | 1   | JP1   | 2x5 Shrouded Header          |                        | Generic           |                     |           | 710-61201021621      |             | Rapid        | 19-0035   |
| Quant  | 27          | 1   | Panel   | Panel                        |                        | GMSN!             | m-p-quant-v2-panel  |           |                      |             |              |           |
| Quant  | 28          | 1   | GLIDE   | Alpha Vertical Potentiometer | B100K                  | Alpha             |                     |           |                      | Q-POT       | Thonk        |           |
| Quant  | 29          | 3   | CV_IN, CV_OUT, TRIG_OUT                             | 3.5mm Jack Mono              | Thonkiconn - PJ301M-12 | Thonk             | PJ301M-12           |           |                      | S_JACK      | Thonk        |           |
| Quant  | 30          | 12  | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12               | Push Button LED Switch       | PB6149L-1              | HIGHLY            | PB6149L-1           |           |                      | PB6149L     | TME          | PB6149L-1 |
| Quant  | 31          | 1   | LED1  | LED                          | Red                    | Generic           |                     | 890-1009  | 604-WP7113SRC/DU     | LED5MM      |              |           |
| Quant  | 32          | 1   | TR1   | 25 Turn Trimpot              | 10K                    | Generic           |                     | 521-9647  | 652-3296W-1-103LF    | TRIM_3269W  |              |           |
| Quant  | 33          | 1   | GLIDE   | Davis 1900h Clone            | Black                  | Davis             |                     |           |                      |             | Thonk        |           |
| Quant  | 34          | 1   | JP2   | TO BE SHORTED                |                        | Generic           |                     |           |                      |             |              |           |
| Quant  | 35          | 1   |   | Power Cable                  | 10Pin - 16Pin          | Generic           | acc-cable-pwr-10-16 |           |                      |             |              |           |
| Quant  | 36          | 4   |   | Machine Screw                | M3 6mm                 | Generic           | acc-screw-m3-6mm    |           |                      |             |              |           |