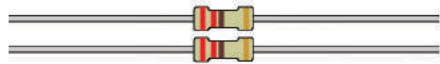


# MST MIDI-TO-CV CONVERTER VISUAL BOM

## LOGIC BOARD

### Resistors

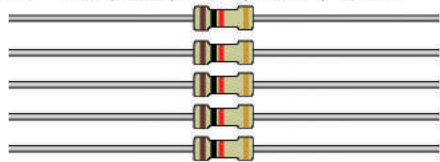
220Ω - R17, R22



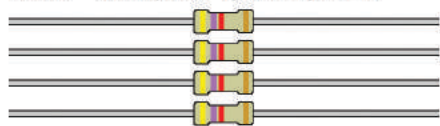
499Ω 1% - R13



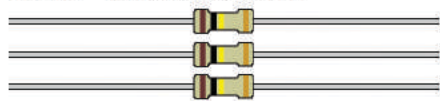
1K - R1, R6, R11, R12, R20



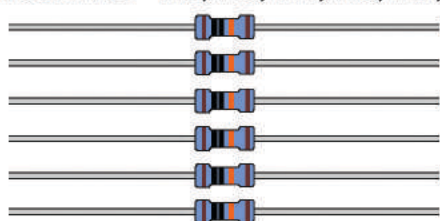
4.7K - R10, R14, R16, R21



100K - R9, R15, R18



100K 1% - R2, R3, R4, R5, R7, R8



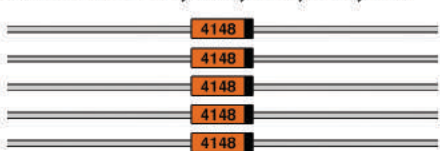
220K - R19



Total = 22

### Diodes

1N4148 - D1, D2, D3, D4, D5



Total = 5

### Capacitors

15pF Ceramic - C7, C11



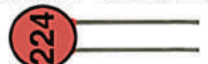
51pF Ceramic - C2, C3, C6, C8



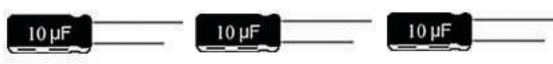
100nF Ceramic - C1, C4, C5, C9, C15, C16



220nF Ceramic - C12



10μF Electrolytic - C10, C13, C14



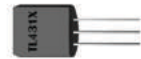
Total = 16

### Transistors/Voltage Regulators

LM78L05 - VR1



TL431 - U3



Total = 2

### Integrated Circuits

8-Pin Socket - U5



14-Pin Socket - U1, U2



28-Pin Socket - U4



TL074 - U2



MCP4922 - U1



PIC18F2553 - U4



6N138 - U5



Total = 8

### Jacks/Connectors

DIP SWITCH - S1



20-Pin (2x10) Male Header - P1



4-Pin I2C Header - P2 (XP OUT)



PIC ICSP Header (6 Pin) - ICSP

**DO NOT POPULATE**

10 Pin Keyed Power Header - P3



Total = 4

### OTHER

20 MHz Crystal - X1



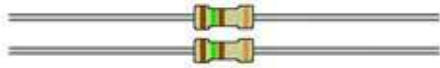
PCBs and Panel



# MST MIDI-TO-CV CONVERTER VISUAL BOM CONTROL BOARD

## Resistors

150Ω - R1, R2



220Ω - R7



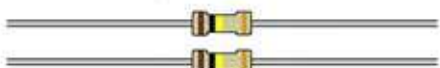
1K - R3



4.7K - R4



100K - R5, R6



Total = 7

## Diodes

1N4148 - D3



4.7V Zener Diode - D2



Bi Colored 3-Lead Red/Green 5mm LED - D1



Total = 3

## Jacks/Connectors

3.5mm Vertical Mount Jack - J3, J4, J5, J8, J9



20 Pin (2x10) Female Header - J1



MIDI Jack, Vertical PCB Mount - J6, J7



USB Vertical B Style - J2



Total = 9

## Potentiometers

B1K Single-Turn Trim Pot - R8



Total = 1

## Switches

SPST Momentary Push Button - S1



SPDT ON-OFF-ON - S2



Total = 2

## Other:

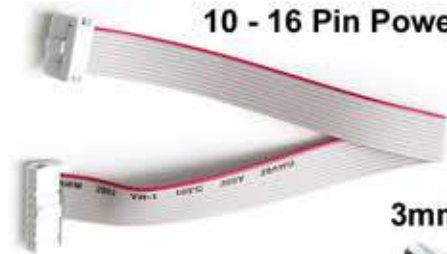
11mm Standoff Female-Female



2.5mm Standoff Screw



10 - 16 Pin Power Cable



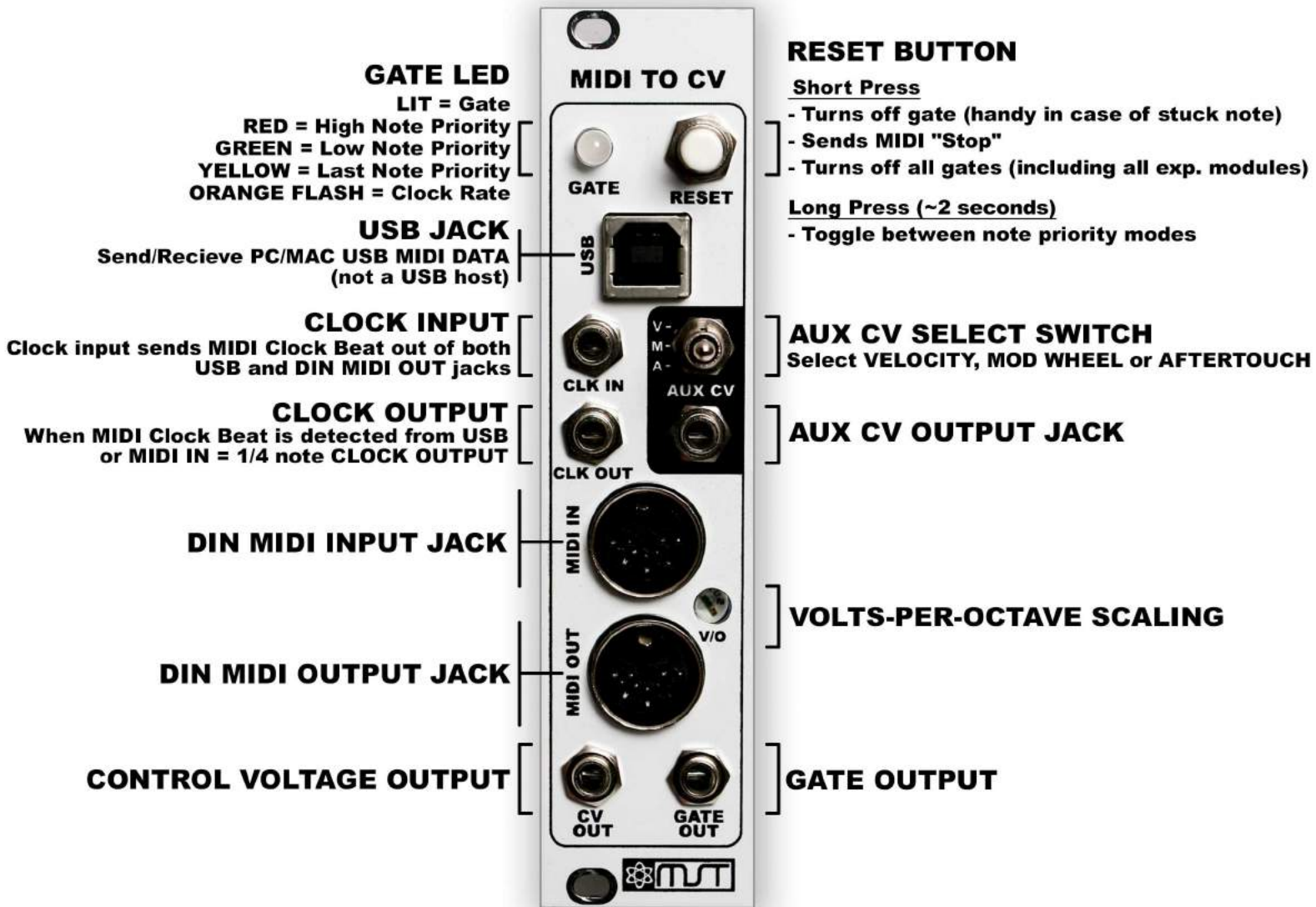
3mm Screw



2.5mm Screw



# MST MIDI TO CONTROL VOLTAGE CONVERTER QUICK START GUIDE



PLEASE FOLLOW USER MANUAL TO SET MIDI CHANNEL  
VIA JUMPERS ON REAR OF MODULE



classic noise.