

MIDI-to-CV Translator Box – Parts List

Description	Designator(s)	Qty
Circuit board (bare PCB, 120 x 45 mm)		1
Enclosure, plastic, 130 x 68 x 42 mm (minimum) e.g. "Jiffy box" Jaycar cat. # HB6023 (Grey)		1
MCU module, Sparkfun 'Pro Micro' (clone), including 2 x 12-way pin headers	A1	1
PCB strip header, 2 x 12-way SIL 0.1", female ccts	(A1 socket)	2
PCB pin header, 5-way SIL, 0.1" pitch (with plug)	P5	1
PCB pin header, 4-way SIL, 0.1" pitch (with plug)	P3, P6	2
PCB pin header, 3-way SIL, 0.1" pitch (1 with plug)	P2, P4	2
DC socket, PCB mount, 5.5mm OD, 2.1mm pin	J1	1
Phone jack, 3.5mm TS (mono), PCB mount	J2, J3, J4, J5, J6	5
IC socket, DIL-8	(U1, U2, U3)	3
Push-button switch, tact, micro (5mm, 2pin)	RESET	1
Toggle switch, mini, panel mount, SPST (or SPDT)	off-board	3
Push-button switch, mini, panel mount, SPST	off-board	1
Socket, DIN, 5-pin 180°, panel mount	off-board	2
IC, dual CMOS op-amp, MCP602, DIP-8 pkg	U1, U2	2
IC, opto-coupler, 6N138, DIP-8 pkg (optional)	U3	(1)
Transistor, BC548 (small-signal NPN), TO-92	Q2, Q3	2
Transistor, BC558 (small-signal PNP), TO-92	Q1	1
Diode, 1N914 (1N4148), small-signal	D1	1
LED, 3mm, YELLOW, diffuse lens	LED1	1
LED, 3mm, RED, diffuse lens	LED2	1
LED, 3mm, GREEN, diffuse lens	LED3	1
Capacitor, Electrolytic, 22µF 16V	C11	1
Capacitor, Polymer, 150nF 50V (prefer MKT)	C3	1
Capacitor, Polymer, 15nF 50V (prefer MKT)	C2, C4, C6, C7, C8	5
Capacitor, Monolithic ceramic, 100nF (.1 µF) 50V	C1, C5, C9, C10, C12	5
Resistor, 220Ω, ½W 1% metal film	R20, R21, R25	3
Resistor, 470Ω, ½W 1% metal film	R26	1
Resistor, 1k, ½W 1% metal film	R15, R22, R24	3
Resistor, 2k2, ½W 1% metal film	R1, R12, R16, R23, R27	5
Resistor, 3k3, ½W 1% metal film	R7, R11	1
Resistor, 4k7, ½W 1% metal film	R17	1
Resistor, 10k, ½W 1% metal film	R19	1
Resistor, 12k, ½W 1% metal film	R5	1
Resistor, 22k, ½W 1% metal film	R2, R3, R6, R13	4
Resistor, 47k, ½W 1% metal film	R8, R9, R10, R14, R18	5
Hookup wire, stranded 13 x 0.12mm, ass'd colours		
Hardware – screws, nuts, washers, standoffs, etc		