

Bill of Materials for MIDI-Retrofit-8 Component Kit V1.7

Item	Description	Qty	Designator	Package
CAPACITOR				
1	100nF Ceramic	6	C101, C402, C406, C407, C408, C409	RAD-0.2N
2	1uF 50V Electrolytic	1	C404	RB-D5.0-P2.0
3	10uF Low ESR Electrolytic	1	C410	RB-D6.3-P2.5
4	10uF 35V Electrolytic	3	C403, C405, C411	RB-D5.0-P2.0
5	100uF Electrolytic	1	C401	RB-D8.0-P2.5
CONNECTOR				
6	Crimp to suit 0.1inch Series MTA	24		-
7	5-PIN DIN Panel Socket	1	J101	-
8	8-pin IC Socket 0.3inch	2	U103, U404	DIP-8
9	16-pin IC Socket 0.3inch	1	U301	DIP-16
10	20-pin IC Socket 0.3inch	1	U302	DIP-20
11	28-pin IC Socket 0.3inch	1	U101	DIP-28
12	2-way 0.1inch Straight - Locking Header	4	J101, J401, J402, S102	2.54MM
13	2-way 0.1inch Crimp Housing	4	J101, J401, J402, S102	2.54MM
14	8-way 0.1inch Crimp Housing	2	J201, J309	2.54MM
15	8-way 0.1inch Straight - Locking Header	2	J201, J309	2.54MM
CRYSTAL				
16	16MHz Oscillator	1	X101	DIL-8
DIODE				
17	1N4004 200V 1A	3	D401, D402, D403	DIODE-0.4
18	1N4148	1	D101	DIODE-0.3
LINEAR				
19	MAX528 - Octal 8-bit DAC	1	U302	DIP-20N
20	ATMEGA8-16PI	1	U101	DIP-28N
21	6N138 - Opto-coupler	1	U103	DIP-8
22	78L05 +5V 100mA Fixed Voltage Regulator	1	U402	TO-92
			NB: Use triangle footprint	
23	TC962 Charge Pump DC-DC Converter	1	U404	DIP-8

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	LINEAR - continued			
24	LM317LZ - Adjustable Positive Voltage Regulator	1	U401	TO-92
			NB: Use triangle footprint	
	LOGIC			
25	CD4504 - Octal Buffer	1	U301	DIP-16
	OPTO-ELECTRONIC			
26	5mm Rectangular Green LED	8	D201, D202, D203, D204, D205, D206, D207, D208	-
	RESISTOR			
27	4 x 10K Commoned Resistor Network	1	RN102	SIP-5
28	10R 1% 0.5W Metal Film	1	R403	AXIAL-0.4
29	220R 1% 0.5W Metal Film	1	R103	AXIAL-0.4
30	240R 1% 0.5W Metal Film	1	R402	AXIAL-0.4
31	510R 1% 0.5W Metal Film	1	R401	AXIAL-0.4
32	1K5 1% 0.5W Metal Film	1	R104	AXIAL-0.4
33	2K2 1% 0.5W Metal Film	8	R201, R202, R203, R204, R205, R206, R207, R208	AXIAL-0.4
34	10K 1% 0.5W Metal Film	2	R101, R102	AXIAL-0.4
35	15K 1% 0.5W Metal Film	1	R108	AXIAL-0.4
	SWITCH			
36	4PST DIP	1	S103	DIP-8
37	SPNO Tactile Switch - 6mm - 3.5mm Plunger	1	S101	-
	TRIMPOT			
38	2K 25TV Cermet	1	P401	3296W
39	5K 25TV Cermet	2	P101, P301	3296W
	FIRMWARE			
40	SOFT - ED103-MIDI Trigger Software V4.3	1		-