

Muffwiggler Benjolin PCB

Reference Designators	Qty	Description	Mouser #	Price (US)	Total (US)	Comments
Resistors (1/4W 1%)						
R1, R2, R3, R4, R5, R6, R7, R8	8	100R	271-100-RC	\$0.15	\$1.20	on the jack side
R27, R36, R45, R54	4	510R	271-510-RC	\$0.15	\$0.60	
R43	1	1.5K	271-1.5K-RC	\$0.15	\$0.15	on the jack side
R9, R16, R29, R39, R56	5	10K	271-10K-RC	\$0.15	\$0.75	
R12, R19, R23, R26, R28, R35, R40	7	15K	271-15K-RC	\$0.15	\$1.05	R40 on jack side
R11, R14, R15, R18, R20, R21, R22, R33, R34, R37, R42, R49, R50, R53	14	30K		\$0.15	\$2.10	
R10, R13, R30, R31, R41, R44, R46, R48, R55	9	51K	271-30K-RC			R18, R33 on jack side
R24	1	62K	271-51K-RC	\$0.15	\$1.35	R10, R13, R30, R31, R41, R44, R46 on jack side
R17, R25, R32, R38, R47, R51	6	100K	271-62K-RC	\$0.15	\$0.15	
R52	1	150K	271-100K-RC	\$0.15	\$0.90	
Hand-add	1	470K	271-150K-RC	\$0.15	\$0.15	
					\$0.15	
					\$0.00	
					\$0.00	
Semiconductors						
D9	1	BAT85 schottky diode	771-BAT85133	\$0.40	\$0.40	
D7, D8	2	1N4001 diode	512-1N4001	\$0.16	\$0.32	
D1, D2, D3, D4, D5, D6	6	1N4148 diode	512-1N4148	\$0.10	\$0.60	
U1, U3, U6	3	Op Amps Dual JFET In Low N	595-TL072IP	\$0.65	\$1.95	
U5, U7	2	Op Amps JFET Input Low Noise	595-TL074CN	\$0.57	\$1.14	
U2	1	CD4021 shift register	595-CD4021BE	\$0.51	\$0.51	Must be a 20V part, not an 18V part; TI is 20V part
Q1	1	BC547C	512-BC547CTFR	\$0.20	\$0.20	Original design was BC547B; used higher beta C part
U8	1	7809 9V 1A 2% positive linear regulator	512-LM7809ACT	\$0.55	\$0.55	
U9	1	7909 9V negative linear regulator	512-LM7909CT	\$0.57	\$0.57	
U4	1	V124D			\$0.00	Available at Small Bear Electronics
					\$0.00	
					\$0.00	
Capacitors						
C5, C6, Hand-add	3	220pF 50volts COG 5% Radial	810-FG28C0G1H221JNT6	\$0.18	\$0.54	
C2, C4, C7, C8	4	560pF 100volts COG 5% Radial	810-FG28C0G2A561JNT6	\$0.26	\$1.04	
C1, C3	2	1000pF 50volts COG 5% Radial	810-FG28C0G1H102JNT6	\$0.21	\$0.42	
C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C22, C23, C24, C25, C26, C27, C28	18	0.10uF 50V X7R 10%	810-FK28X7R1H104K	\$0.17	\$3.01	
C9, C21	2	10uF 35volts 2.5LS Electrolytic	647-UKL1V100KDDANA	\$0.42	\$0.84	Bypass
					\$0.00	
					\$0.00	
Miscellaneous						
F1, F2	2	Resettable Fuses - PPTC 60V 0.3A Radial Kinked Leads	504-PTR060V0030-BK1	\$0.35	\$0.70	
SW1	1	Toggle Switches SPDT ON-ON PC MNT	633-M201203	\$2.86	\$2.86	
RV1, RV2, RV3, RV4, RV5, RV6, RV7, RV8, RV9, RV10, RV11	11	Potentiometers Vert Snap-in 10K Ohms 20%	688-RK09L1140A2U	\$1.05	\$11.55	
J1, J2, J3, J4, J5, J6, J7, J8, J9, J10, J11, J12	12	PJ301M-12 3.5mm mono switched jack	16PJ138	\$0.80	\$9.60	PJ301M-12 available from Think or Synthcube Kobiconn jack listed requires a wire ground lead
					\$0.21	Select one: MOTM power (PCB holes too small)
P1	1	0.156" MTA 4 pin header	571-6404454	\$0.21	\$0.30	Dotcom power
		0.100" MTA 6 pin header	571-6404566	\$0.30	\$0.30	
	3	8 pin DIP socket	517-4808-3000-CP	\$0.48	\$1.44	Optional socket
	2	14 pin DIP socket	517-4814-3000-CP	\$0.48	\$0.96	Optional socket
	2	16 pin DIP socket	517-4816-3000-CP	\$0.48	\$0.96	Optional socket
					<u>\$0.96</u>	
					\$49.01	