

TimeMachine RevB 5U PCB

Qty	Reference	Description	Mouser P/N	Comments	Each	Total
PCB Components						
Ceramic Capacitors						
3	C2,C4,C15	22 pF NPO	80-C315C220K1G	2.5 mm LS	\$0.18	\$0.54
5	C13,C18,C19,C20,C28	100 pF NPO	80-C315C101K1G	2.5 mm LS	\$0.18	\$0.90
1	C12	150 pF NPO	80-C315C151K1G	2.5 mm LS	\$0.18	\$0.18
5	C11,C21,C22,C23,C24	560 pF NPO	80-C315C561K1G	2.5 mm LS	\$0.18	\$0.90
4	C1,C6,C27,C30	0.01 uF X7R	80-C324C103K5R	2.5 mm LS	\$0.13	\$0.52
2	C32,C34	0.1 uF Z5U axial	147-72-104-RC		\$0.16	\$0.32
Mylar Capacitor						
3	C5,C25,C29	0.1 uF	505-MKS2.1/63/10	5 mm LS	\$0.23	\$0.69
Electrolytic Capacitors						
12	C3,C7,C8,C9,C10,C14,C16, C17,C26,C35,C36,C37	10uF	140-LLRL35V10-RC	2 mm LS; end of life - alt 647-UKL1V100MDDANA	\$0.22	\$2.64
2	C31,C33	100uF	140-LLRL35V100-RC	3.5 mm LS; end of life	\$0.35	\$0.70
Resistors; 1/4W 1% metal film						
1	R29	100R	271-100-RC		\$0.09	\$0.09
5	R32,R34,R44,R48,R49	200R	271-200-RC		\$0.09	\$0.45
1	R54	330R	271-330-RC		\$0.09	\$0.09
5	R21,R33,R35,R57,R54	1K	271-1K-RC		\$0.09	\$0.45
1	R45	1.33K	271-1.33K-RC		\$0.09	\$0.09
2	R55,R63	2.2K	271-2.2K-RC		\$0.09	\$0.18
1	R36	5.6K	271-5.6K-RC		\$0.09	\$0.09
2	R13,R38	7.5K	271-7.5K-RC		\$0.09	\$0.18
5	R16,R24,R53,R59,R61	10K	271-10K-RC		\$0.09	\$0.45
3	R22,R52,R56	15K	271-15K-RC		\$0.09	\$0.27
1	R51	20K	271-20K-RC		\$0.09	\$0.09
3	R23,R25,R60	33K	271-33K-RC		\$0.09	\$0.27
1	R15	41.2K	271-41.2K-RC		\$0.09	\$0.09
2	R11,R50	45.3K	271-45.3K-RC		\$0.09	\$0.18
1	R19	47K	271-47K-RC		\$0.09	\$0.09
2	R46,R47	49.9K	271-49.9K-RC		\$0.09	\$0.18
4	R20,R30,R31,R37	56K	271-56K-RC		\$0.09	\$0.36
2	R10,R12	75K	271-75K-RC		\$0.09	\$0.18
8	R9,R17,R26,R27,R28,R42,R 58,R62	100K	271-100K-RC		\$0.09	\$0.72
1	R43	150K	271-150K-RC		\$0.09	\$0.09
1	R14	274K	271-274K-RC		\$0.09	\$0.09
1	R8	357K	271-357K-RC		\$0.09	\$0.09
3	R18,R39,R41	470K	271-470K-RC		\$0.09	\$0.27
Resistor Packs						
1	RN2	100K 3 isolated 6 pin	267-100K-RC		\$0.47	\$0.47
1	RN8	560R 4 isolated 8 pin	268-560-RC		\$0.47	\$0.47
1	RN4	5.6K 4 isolated 8 pin	268-5.6K-RC		\$0.47	\$0.47
1	RN14	10K 4 isolated 8 pin	268-10K-RC		\$0.47	\$0.47
2	RN10,RN11	20K 4 isolated 8 pin	268-20K-RC		\$0.47	\$0.94
3	RN5,RN6,RN7	33K 4 isolated 8 pin	268-33K-RC		\$0.47	\$1.41
1	RN3	56K 4 isolated 8 pin	268-56K-RC		\$0.47	\$0.47

2	R15,RN9	100K 4 isolated 8 pin	268-100K-RC		\$0.47	\$0.94
1	RN13	100K 5 common 6 pin	264-100K-RC		\$0.47	\$0.47
2	RN1,RN12	100K 5 isolated 10 pin	269-100K-RC		\$0.47	\$0.94

Tempco Resistor

1	R7	1/8W 1% 1K TC +3300ppm	Bridechamber	alternate Digikey P1.0KCDCT-ND 0805 SMT	\$3.00	\$3.00
---	----	------------------------	--------------	---	--------	--------

Trimmer Resistors

1	RT2	20 turn top 20K ceramic	72-T93YA-20K		\$1.44	\$1.44
1	R6	200R 6mm CF	652-3306F-1-201		\$0.71	\$0.71
1	R3	10K 6mm CF	652-3306F-1-103		\$0.71	\$0.71
1	R4	50K 6mm CF	652-3306F-1-503		\$0.71	\$0.71
2	R1,R5	100K 6mm CF	652-3306F-1-104		\$0.71	\$1.42

Semiconductors

2	D5,D6	1N4001	512-1N4001		\$0.20	\$0.40
7	D1,D2,D3,D4,D7,D8,D9	1N4148	512-1N4148		\$0.09	\$0.63
3	Q3,Q4,Q5	2N3906	512-2N3906BU		\$0.10	\$0.30
1	Q2	2N3904	512-2N3904BU		\$0.10	\$0.10
1	Q1	LS358-71 TO-71	Digikey MAT03FHZ-ND	substitute MAT03	\$15.61	\$15.61
1	U2	4013 Dual F/F	771-HEF4013BPN		\$0.30	\$0.30
1	U8	4046 PLL	771-HEF4046BPN		\$0.36	\$0.36
1	U9	4518 BDC Counter	863-MC14518BCPG		\$0.99	\$0.99
2	U18,U20	LM317L TO-92	863-LM317LBZG		\$0.65	\$1.30
1	U19	LM337LZ TO92	Digikey LM337LZ-ND		\$0.99	\$0.99
3	U1,U12,U14	LM324 Quad OpAmp	511-LM324N		\$0.53	\$1.59
2	U4,U5	LTC1063 LP Filter	Digikey LTC1063CN8#PBF-ND		\$11.00	\$22.00
1	U17	MAX362 Quad NO Switch	781-DG202BDJ-E3	substitute DG202B; MAX362 now available at Mouser 700-MAX362CPE at \$6.77	\$1.38	\$1.38
1	U3	MN3005 BBD	NOS		TBD	TBD
2	U7,U15	NJM13600	513-NJM13600D		\$0.63	\$1.26
1	U11	SSM2164P	Digikey SSM2164PZ-ND		\$6.00	\$6.00
4	U6,U10,U13,U16	TL074	595-TL074BCN		\$1.06	\$4.24

Miscellaneous Parts

2	PS1,PS2	PTC MF-R017	Digikey MF-R017-ND		\$0.35	\$0.70
1	J10	0.156" 4 pin MTA header	571-6404454			
2		8 pin DIP socket	517-4808-3000-CP		\$0.18	\$0.36
9		14 pin DIP socket	517-4814-3000-CP		\$0.16	\$1.44
6		16 pin DIP socket	517-4816-3000-CP		\$0.15	\$0.90

Qty	Designator	Description	Mouser P/N	Comments		
-----	------------	-------------	------------	----------	--	--

Panel Mounted Components

Controls and jacks

6	R1,R2,R3,R4,R5,R6	50K linear potentiometer	Oakley Sound	BI Technologies P260P potentiometers	TBD	TBD
6		Knobs	506-PKES90B1/4		\$2.39	\$14.34
9		1/4" NC Jack	502-112AX	Bridechamber lower cost	\$2.29	\$20.61
1	LED1	Lumix Red LED	Digikey 67-1155-ND		\$1.80	\$1.80
1	S1	SPDT Switch On-none-On	1055-TA2130-EVX		\$2.38	\$2.38
2		4 pin MTA connector	571-3-640426-4	power cable	\$0.40	\$0.80
2		4 pin MTA dust cover	571-6405514	power cable	\$0.18	\$0.36