

## Buchla 218 clone BOM (PCB1)

by SAMODULAR

	Designator	Quantity	Description	Mouser Part#
<b>Misc</b>				
LED red	LED1, LED2, LED3	3	3mm	<a href="#">630-HLMP-K101</a>
SMT Header	PLD1, PLD2, PLD3, PLD4	4	Header 10-pin	<a href="#">649-72454-010LF</a>

## Buchla 218 clone BOM (PCB2)

by SAMODULAR

	Designator	Quantity	Description	Mouser Part#
<b>Diodes</b>				
1N5233	Z1	1		<a href="#">512-1N457</a>
BAT54	D1	1		<a href="#">863-BAT54SLT1G</a>
SD103B	D2	1		<a href="#">625-SD103B</a>

	Designator	Quantity	Description	Mouser Part#
<b>Resistors</b>				
47R	R72	1	1% 1/4W	<a href="#">660-MF1/4DC47R0F</a>
150R	R73	1	1% 1/4W	<a href="#">660-MF1/4DC1500F</a>
220R	R61, R86	2	1% 1/4W	<a href="#">660-MF1/4DC2200F</a>
1K	R6, R7, R8, R9, R11, R16, R18, R19, R20, R21, R22, R35, R36, R39, R42, R43, R44, R45, R50, R54, R65	21	1% 1/4W	<a href="#">660-MF1/4DC1001F</a>
1.8K	R83	1	1% 1/4W	<a href="#">660-MF1/4DC1801F</a>
2.2K	R79, R80, R81	3	1% 1/4W	<a href="#">660-MF1/4DC2201F</a>
3.3K	R71	1	1% 1/4W	<a href="#">660-MF1/4DC3301F</a>
6.2K	R82, R85	2	1% 1/4W	<a href="#">660-MF1/4DC6201F</a>
6.8K	R52, R76, R77, R78, R87	5	1% 1/4W	<a href="#">660-MF1/4DC6801F</a>
9.76K	R32	1	1% 1/4W	<a href="#">660-MF1/4DC9761F</a>
10K	R1, R2, R3, R15, R33, R34, R37, R38, R40, R46, R48, R51, R55, R57, R58, R63, R66, R69, R75	19	1% 1/4W	<a href="#">660-MF1/4DC1002F</a>
20K	R41, R56, R60, R68, R84	5	1% 1/4W	<a href="#">660-MF1/4DC2002F</a>
33K	R23, R24, R25, R26, R27, R28, R29, R30, R47	9	1% 1/4W	<a href="#">660-MF1/4DC3302F</a>
39K	R74	1	1% 1/4W	<a href="#">660-MF1/4DC3902F</a>
47K	R4, R5, R10, R12, R13, R14, R17	7	1% 1/4W	<a href="#">660-MF1/4DC4702F</a>
68K	R59, R64	2	1% 1/4W	<a href="#">660-MF1/4DC6802F</a>
330K	R62, R70	2	1% 1/4W	<a href="#">660-MF1/4DC3303F</a>
2.2M	R67	1	5% 1/4W	<a href="#">660-CF1/4C225J</a>
10M	R31	1	5% 1/4W	<a href="#">660-CF1/4C106J</a>

	Designator	Quantity	Description	Mouser Part#
<b>Capacitors</b>				
22pF ceramic	C14, C15	2	Ceramic 5mm	<a href="#">810-FA28C0G1H22000</a>
33pF ceramic	C23, C24, C25, C26, C27, C28, C29, C30	8	Ceramic 5mm	<a href="#">810-FA28C0G1H33000</a>
4.7nF ceramic	C38, C52	2	Ceramic 5mm	<a href="#">810-FA26C0G1H47200</a>
0.1uF ceramic	C3, C4, C5, C7, C8, C9, C13, C16, C17, C18, C19, C22, C31, C32, C33, C34, C35, C36, C42, C43, C45, C46, C47, C48, C49, C50, C51, C53	28	Ceramic 5mm	<a href="#">810-FA28X7R1H10400</a>
1uF ceramic	C12	1	Ceramic 5mm	<a href="#">810-FG28X5R1H105KRT0</a>
2.2uF ceramic	C10, C11	2	Ceramic 5mm	<a href="#">810-FG28X5R1E225KRT6</a>
4.7uF ceramic	C21, C44	2	Ceramic 5mm	<a href="#">810-FG24X5R1H475KRT6</a>
15uF elec	C1, C2, C6, C39, C40, C41	6	Electrolytic 2mm	<a href="#">647-UHE1J150MDD</a>

	Designator	Quantity	Description	Mouser Part#
<b>ICs</b>				
STM32F405 CARD		1		INCLUDED
25MHz crystal		1		<a href="#">695-HC49US-25.0ABJB</a>
CD4052	IC2, IC3, IC4, IC5	4	16pin DIP	<a href="#">595-CD4052BE</a>
CD4066	IC15	1	14pin DIP	<a href="#">595-CD4066BE</a>
LM1117-3.3V	IC12	1		<a href="#">926-LM1117IDT3.3NOPB</a>
TL071	IC11	1	8pin DIP	<a href="#">595-TL071CP</a>
TL072	IC10	1	8pin DIP	<a href="#">595-TL072CP</a>
TL074	IC8, IC9, IC13, IC14	4	14pin DIP	<a href="#">595-TL074CN</a>

<b>Potentiometers</b>				
10K - 100K lin	POT1, POT2, POT3, POT4		4	16mm <a href="#">SAMODULAR (add 4x additional nuts)</a>

<b>Trimmer</b>				
500R	TR2		1	<a href="#">652-3362P-1-501LF</a>
20K	R53		1	<a href="#">652-3266W-1-203LF</a>
100K	TR1		1	<a href="#">652-3362P-1-104LF</a>

<b>Misc</b>				
				<a href="#">630-HLMP-K101</a>
	B1, B2, B3, B4, B6, B10, B11		7	Banana jack black <a href="#">530-108-0903-1</a>
	B5, B7		2	Banana jack red <a href="#">530-108-0902-1</a>
	B8, B9		2	Banana jack violet <a href="#">530-108-0912-1</a>
DIP sockets			2	8pin <a href="#">SAMODULAR</a>
DIP sockets			5	14pin <a href="#">SAMODULAR</a>
DIP sockets			4	16pin <a href="#">SAMODULAR</a>
Switch DPDT	SW1		1	ON-OFF-ON <a href="#">611-7203-001</a>
DIP switch	SW2		1	<a href="#">774-2084</a>
Standoffs 15mm I/I			1	<a href="#">SAMODULAR</a>
Rogan knobs			4	medium red skirted <a href="#">SAMODULAR</a>
Switchcaps red			1	<a href="#">SAMODULAR</a>
Header	PBD1, PBD2, PBD3, PBD4		4	10pin female <a href="#">517-929975-01-05-RK</a>
Header			4	16pin female <a href="#">517-929974-01-16-RK</a>
Header			4	16pin male <a href="#">517-929700-01-16</a>
Header			1	20pin IDC <a href="#">571-1761681-7</a>
VTL5C3	V1		1	Single vactrol <a href="#">SAMODULAR</a>
Guitar fret wire			1	eBay #181286129148
STLink Programer			1	<a href="#">511-ST-LINK/V2</a>
Power connector			1	Edgecard 10-pin <a href="#">SAMODULAR</a>