

# Buchla 285 clone BOM (PCB1)

by SAMODULAR

	Designator	Quantity	Description	Mouser Part#
<b>Diodes</b>				
1N457	D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, 12	12		<a href="#">512-1N457</a>

<b>Resistors</b>				
100R	R38	1	1% 1/4W	<a href="#">660-MF1/4DC1000F</a>
470R	R12, R46	2	1% 1/4W	<a href="#">660-MF1/4DC4700F</a>
680R	R25, R37	2	1% 1/4W	<a href="#">660-MF1/4DC6800F</a>
1K	R28, R32	2	1% 1/4W	<a href="#">660-MF1/4DC1001F</a>
3.3K	R14, R29, R30	3	1% 1/4W	<a href="#">660-MF1/4DC3301F</a>
6.8K	R13, R16, R26	3	1% 1/4W	<a href="#">660-MF1/4DC6801F</a>
6.81K	R23, R40	2	1% 1/4W	<a href="#">660-MF1/4DC6811F</a>
10K	R34, R35, R39, R41, R42, R43, R47, R48, R237, R238	10	1% 1/4W	<a href="#">660-MF1/4DC1002F</a>
15K	R5, R15	2	1% 1/4W	<a href="#">660-MF1/4DC1502F</a>
22K	R27	1	1% 1/4W	<a href="#">660-MF1/4DC2202F</a>
33K	R10, R44	2	1% 1/4W	<a href="#">660-MF1/4DC3302F</a>
41.2K	R9	1	1% 1/4W	<a href="#">660-MF1/4DC4122F</a>
43.2K	R36	1	1% 1/4W	<a href="#">660-MF1/4DC4322F</a>
47K	R1, R2, R3, R4	4	1% 1/4W	<a href="#">660-MF1/4DC4702F</a>
49.9K	R19, R21, R22	3	1% 1/4W	<a href="#">660-MF1/4DC4992F</a>
62K	R6, R20	2	1% 1/4W	<a href="#">MFR-25FTE52-62K</a>
150K	R8	1	1% 1/4W	<a href="#">660-MF1/4DC1503F</a>
270K	R11	1	1% 1/4W	<a href="#">660-MF1/4DC2703F</a>
330K	R24, R31	2	1% 1/4W	<a href="#">660-MF1/4DC3303F</a>
1M 5%	R45	1	5% 1/4W	<a href="#">660-CF1/4C105J</a>
10M 5%	R18	1	5% 1/4W	<a href="#">660-CF1/4C106J</a>
22M 5%	R17, R33	2	5% 1/4W	<a href="#">660-CF1/4C226J</a>

<b>Trimmers</b>				
20K	TR1	1	Single turn	<a href="#">652-3362X-1-203LF</a>
100K	TR2, TR3	2	Single turn	<a href="#">652-3362X-1-104LF</a>

<b>Capacitors</b>				
220pF ceramic	C6	1	Ceramic 5mm	<a href="#">810-FA28COG1H22100</a>
560pF ceramic	C56, C57	2	Ceramic 5mm	<a href="#">810-FA28COG1H56100</a>
33nF film	C7	1	Film 5mm	<a href="#">871-B32529C333J</a>
47nF ceramic	C8	1	Ceramic 5mm	<a href="#">810-FA28X7R1H47300</a>
0.1uF ceramic	F1, F2, F3, F4, F5, F6, F7, F8, F9, F10	10	Ceramic 5mm	<a href="#">810-FA28X7R1H10400</a>
4.7uF	C1, C2, C3, C4, C5	5	Tantalum	<a href="#">74-173D475X9035WWE3</a>

<b>ICs</b>				
2N4339 (selected)	Q1	1		<a href="#">SAMODULAR</a>
2N4342	Q2, Q4	2		<a href="#">SAMODULAR</a>
PN3565	Q3	1		<a href="#">610-PN3565</a>
TL071	IC1, IC2, IC3, IC4, IC5	5	8pin DIP	<a href="#">595-TL071IP</a>
LM301	IC6, IC7, IC8	3	8pin DIP	<a href="#">SAMODULAR</a>
CD4011	IC9, IC10	2	14pin DIP	<a href="#">595-CD4011BE</a>

<b>Potentiometers</b>				
50K log	POT3	1	16mm	<a href="#">Alpha 16mm pot (1x additional nut)</a>
10K	POT1, POT2, POT4, POT5	4	16mm	<a href="#">Alpha 16mm pot (4x additional nuts)</a>

<b>Misc</b>				
		2	Banana jack black	<a href="#">530-108-0903-1</a>

Tinijax 41		13	Tinijax	<a href="#">502-41</a>
Pin header	PLD1	1	20-pin (male)	<a href="#">517-836-01-10</a>
Knobs - small blue skirted		5	Rogans RB series - 285 set	<a href="#">SAMODULAR</a>
Switch DPDT ON-ON	SW1	1		<a href="#">633-M202201</a>
Test Point	TP1	1		<a href="#">534-5122</a>
DIP sockets		8	8pin	<a href="#">SAMODULAR</a>
DIP sockets		2	14pin	<a href="#">SAMODULAR</a>
Standoffs 11mm I/I		5	11mm	<a href="#">SAMODULAR</a>
Standoffs 12mm I/O		5	12mm	<a href="#">SAMODULAR</a>
Standoffs 15mm I/O		5	15mm	<a href="#">SAMODULAR</a>

## Buchla 285 clone BOM (PCB2)

by SAMODULAR

	Designator	Quantity	Description	Mouser Part#
<b>Resistors</b>				
470R	R69, R78, R123, R132	4	1% 1/4W	<a href="#">660-MF1/4DC4700F</a>
2.2K	R56, R57, R58, R59, R60, R61, R85, R86, R87, R88, R89, R110, R111, R112, R113, R114, R115, R139, R140, R141, R142, R143	22	1% 1/4W	<a href="#">660-MF1/4DC2201F</a>
4.99K	R54, R75, R108, R129	4	1% 1/4W	<a href="#">660-MF1/4DC4991F</a>
10K	R49, R50, R51, R52, R53, R62, R70, R71, R72, R73, R74, R79, R80, R81, R82, R83, R98, R99, R100, R101, R102, R103, R104, R105, R106, R107, R116, R124, R125, R126, R127, R128, R133, R134, R135, R136, R137, R152, R153, R154, R155, R156	42	1% 1/4W	<a href="#">660-MF1/4DC1002F</a>
15K	R67, R121	2	1% 1/4W	<a href="#">660-MF1/4DC1502F</a>
22K	R91, R92, R93, R94, R145, R146, R147, R148	8	1% 1/4W	<a href="#">660-MF1/4DC2202F</a>
49.9K	R64, R65, R66, R68, R118, R119, R120, R122	8	1% 1/4W	<a href="#">660-MF1/4DC4992F</a>
100K	R55, R76, R77, R84, R90, R95, R109, R130, R131, R138, R144, R149	12	1% 1/4W	<a href="#">660-MF1/4DC1003F</a>
330K	R96, R97, R150, R151	4	1% 1/4W	<a href="#">660-MF1/4DC3303F</a>
680K	R63, R117	2	1% 1/4W	<a href="#">660-MF1/4DC6803F</a>
<b>Trimmers</b>				
20K	TR5, TR6, TR7, TR8, TR10, TR11, TR12, TR13	8	Single turn	<a href="#">652-3362X-1-203LF</a>
100K	TR4, TR9	2	Single turn	<a href="#">652-3362X-1-104LF</a>

<b>Capacitors</b>				
220pF film	C10, C26	2	Film 5mm	<a href="#">505-FKP2220/100/2.5</a>
470pF film	C23, C39	2	Film 5mm	<a href="#">505-FKP2470/100/2.5</a>
1nF film	C15, C16, C18, C31, C32, C34	6	Film 5mm	<a href="#">871-B32529C1102J289</a>
4.7nF film	C22, C38	2	Film 5mm	<a href="#">871-B32529C1472J189</a>
10nF film	C14, C30	2	Film 5mm	<a href="#">871-B32529C103J</a>
47nF film	C21, C37	2	Film 5mm	<a href="#">871-B32529C1473J</a>
100nF film	C13, C29	2	Film 5mm	<a href="#">871-B32529C1104J</a>
0.47uF film	C20, C36	2	Film 5mm	<a href="#">871-B32529C1474J</a>
1uF film	C11, C12, C19, C27, C28, C35	6	Film 5mm	<a href="#">80-R82DC4100AA60J</a>
0.1uF ceramic	F11, F12, F13, F14	4	Ceramic 5mm	<a href="#">810-FA28X7R1H10400</a>
4.7uF tantalum	C9, C17, C24, C25, C33, C40	6	Tantalum	<a href="#">74-173D475X9035WWE3</a>

<b>ICs</b>				
2N3906	Q5, Q6, Q7, Q8, Q9, Q10, Q17, Q18, Q19, Q20, Q21, Q27, Q28, Q29, Q30, Q31, Q32, Q39, Q40, Q41, Q42, Q43	22		<a href="#">512-2N3906TA</a>
J201	Q11, Q12, Q13, Q14, Q15, Q16, Q22, Q23, Q24, Q25, Q26, Q33, Q34, Q35, Q36, Q37, Q38, Q44, Q45, Q46, Q47, Q48	22		<a href="#">106-J201</a>
TL071	IC11, IC12, IC13, IC14	4	8pin DIP	<a href="#">595-TL071IP</a>

<b>Misc</b>				
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DIP sockets		4	8pin	<a href="#">SAMODULAR</a>
Pin header	PLD2	1	20-pin (male)	<a href="#">517-836-01-10</a>
Pin header	PBD1	1	20-pin (female)	<a href="#">517-929975-01-10-RK</a>

## Buchla 285 clone BOM (PCB3)

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	Designator	Quantity	Description	Mouser Part#
<b>Resistors</b>				
47R	R233, R234	2	1% 1/4W	<a href="#">660-MF1/4DC47R0F</a>
220R	R169, R170, R209, R228	4	1% 1/4W	<a href="#">660-MF1/4DC2200F</a>
470R	R214	1	1% 1/4W	<a href="#">660-MF1/4DC4700F</a>
1K	R157, R158, R165, R166, R206, R207	6	1% 1/4W	<a href="#">660-MF1/4DC1001F</a>
3.3K	R232, R235	2	1% 1/4W	<a href="#">660-MF1/4DC3301F</a>
4.7K	R163, R174, R189, R215	4	1% 1/4W	<a href="#">660-MF1/4DC4701F</a>
6.8K	R216, R217, R236	3	1% 1/4W	<a href="#">660-MF1/4DC6801F</a>
10K	R164, R167, R176, R186, R187, R199, R230	7	1% 1/4W	<a href="#">660-MF1/4DC1002F</a>
12K	R161, R172, R175, R190, R191, R192, R204, R205, R211, R218, R226, R227	12	1% 1/4W	<a href="#">660-MF1/4DC1202F</a>
13K	R229	1	1% 1/4W	<a href="#">660-MF1/4DC1302F</a>
15K	R181, R182, R185, R197, R198, R202, R221, R222, R225	9	1% 1/4W	<a href="#">660-MF1/4DC1502F</a>
18K	R162, R173, R212	3	1% 1/4W	<a href="#">660-MF1/4DC1802F</a>
22K	R188, R203	2	1% 1/4W	<a href="#">660-MF1/4DC2202F</a>
47K	R177, R193	2	1% 1/4W	<a href="#">660-MF1/4DC4702F</a>
56K	R213	1	1% 1/4W	<a href="#">660-MF1/4DC5602F</a>
120K	R231	1	1% 1/4W	<a href="#">660-MF1/4DC1203F</a>
150K	R178, R196	2	1% 1/4W	<a href="#">660-MF1/4DC1503F</a>
220K	R179, R180, R183, R194, R195, R200, R219, R220, R223	9	1% 1/4W	<a href="#">660-MF1/4DC2203F</a>
470K	R160, R171, R184, R201, R210, R224	6	1% 1/4W	<a href="#">660-MF1/4DC4703F</a>
1.5M	R159, R168, R208	3	1% 1/4W	<a href="#">660-MF1/4DC1504F</a>
<b>Trimmers</b>				
100K	TR14, TR15, TR16, TR17, TR18, TR19, TR20, TR21, TR22, TR23, TR24, TR25, TR26, TR27	14	Single turn	<a href="#">652-3362P-1-104LF</a>

<b>Capacitors</b>				
10pF ceramic	C49, C50	2	Ceramic 5mm	<a href="#">810-FG28C0G1H100DNT0</a>
22pF ceramic	C51	1	Ceramic 5mm	<a href="#">810-FG28C0G1H220JNT0</a>
100pF ceramic	C45, C46, C53	3	Ceramic 5mm	<a href="#">810-FG28C0G1H101JNT0</a>
0.1uF ceramic	F15, F16, F17, F18, F19, F20, F21, F22, F23, F24, F25	11	Ceramic 5mm	<a href="#">810-FA28X7R1H10400</a>
4.7uF tantalum	C47, C48	2	Tantalum	<a href="#">74-173D475X9035WWE3</a>
47uF tantalum	C41, C42, C43, C44, C52, C54, C55	7	Tantalum	<a href="#">74-173D476X9010XE3</a>

<b>ICs</b>				
PN3565	Q49, Q50	2		<a href="#">610-PN3565</a>
MC1494	IC15, IC16, IC20	3	16pin DIP	<a href="#">SAMODULAR</a>
TL071	IC17, IC18, IC19, IC21, IC22	5	8pin DIP	<a href="#">595-TL071IP</a>

<b>Misc</b>				
Test Point	TP2, TP3, TP4, TP5, TP6, TP7, TP8	7		<a href="#">534-5122</a>
VTL5C3	V1, V2	2	Single vactrol	<a href="#">SAMODULAR</a>
DIP sockets		5	8pin	<a href="#">SAMODULAR</a>
DIP sockets		3	16pin	<a href="#">SAMODULAR</a>
Power connector		1		<a href="#">SAMODULAR</a>
Pin header	PBD2	1	20-pin (female)	<a href="#">517-929975-01-10-RK</a>