

# Buchla 259 clone BOM (PCB1)

by SAMODULAR

	Designator	Quantity	Description	Mouser Part#
<b>Diodes</b>				
1N457	D1, D2, D3, D4, D5, D7, D8, D9, D11, D14, D15, D18	12		<a href="#">512-1N457</a>

<b>Resistors</b>				
470R	R2, R14, R48, R57, R58, R80, R86, R87, R117, R166A, R200, R287	12	5% 1/4W	<a href="#">291-470-RC</a>
2.2K	R78	1	5% 1/4W	<a href="#">291-2.2K-RC</a>
3.3K	R77	1	5% 1/4W	<a href="#">291-3.3K-RC</a>
4.99K	R35, R37, R137, R139	4	1% 1/4W	<a href="#">271-4.99K-RC</a>
10K	R160	1	5% 1/4W	<a href="#">291-10K-RC</a>
15K	R32, R36, R133, R138	4	5% 1/4W	<a href="#">291-15K-RC</a>
47K	R75	1	5% 1/4W	<a href="#">291-47K-RC</a>
100K	R1, R105, R166, R188, R252, R264	6	5% 1/4W	<a href="#">291-100K-RC</a>
130K	R4, R108	2	5% 1/4W	<a href="#">291-130K-RC</a>
150K	R167, R190, R253, R267	4	5% 1/4W	<a href="#">291-150K-RC</a>
220K	R45	1	5% 1/4W	<a href="#">291-220K-RC</a>
680K	R113B, R198	2	5% 1/4W	<a href="#">291-680K-RC</a>
2.2M	R17, R112	2	5% 1/4W	<a href="#">291-2.2M-RC</a>
10M	R31, R136	2	5% 1/4W	<a href="#">291-10M-RC</a>
91K (1.2V/OCT)	R5A, R109A	2	1% 1/4W	<a href="#">271-91K-RC</a>
180K (2V/OCT)	R5A, R109A	2	1% 1/4W	<a href="#">271-180K-RC</a>

<b>Trimmers</b>				
20K	TR3, TR4, TR5, TR6, TR7, TR8, TR9	7	Single turn	<a href="#">3362P-1-203LF</a>
100K	TR1, TR2	2	Single turn	<a href="#">3362P-1-104LF</a>

<b>Capacitors</b>				
47uF	C1	1	Tantalum	<a href="#">74-173D476X9010XE3</a>

<b>Potentiometers</b>				
50K lin	POT2, POT8	2	16mm	<a href="#">31JN405-F</a>
10K - 100K lin	POT3, POT5, POT6, POT9, POT14, POT15	6	16mm	<a href="#">Alpha 16mm pot (add 6x additional nuts)</a>
10K - 100K log	POT1, POT7	2	16mm	<a href="#">Alpha 16mm pot (add 2x additional nuts)</a>
10K - 100K lin	POT4, POT10, POT11, POT12, POT13	5	9mm	<a href="#">Alpha 9mm pot</a>

<b>Misc</b>				
LED red	LED1, LED2, LED3, LED4, LED5, LED6, LED7, LED8, LED9, LED10, LED11, LED12, LED13, LED14, LED15	15		<a href="#">630-HLMP-K101</a>
PLD-26	PLD1, PLD2	2	26pin header (male)	<b>SAMODULAR</b>
		8	Banana jack black	<a href="#">530-108-0903-1</a>
		1	Banana jack blue	<a href="#">530-108-0910-1</a>
Tinijax 41		10	Tinijax	<a href="#">502-41</a>
DPDT ON-OFF-(ON)	SW1	1	DPDT switches	<a href="#">611-7207SYCQE</a>
DPDT ON-ON-ON	SW3	1	DPDT switches	<a href="#">611-7211-002</a>
SPDT ON-OFF-ON	SW2	1	SPDT switches	<a href="#">611-7103-002</a>
SPDT (ON)-OFF-(ON)	SW8	1	SPDT switches	<a href="#">611-7105-002</a>
SPDT ON-ON	SW4, SW5, SW6, SW7	4	SPDT switches	<a href="#">611-7101-002</a>
		7	Switchcaps blue	<a href="#">SAMODULAR</a>
		1	Switchcaps white	<a href="#">SAMODULAR</a>
Knobs - big blue skirted		2	Rogans	<a href="#">SAMODULAR</a>
Knobs - small blue unskirted		5	Rogans	<a href="#">SAMODULAR</a>
Knobs - small blue skirted		8	Rogans	<a href="#">SAMODULAR</a>

Power connector		1	10pin edgecard	
Standoffs 15mm l/l		4	15mm	<a href="#">SAMODULAR</a>
Standoffs 30mm l/l		4	30mm	<a href="#">SAMODULAR</a>

## Buchla 259 clone BOM (PCB2)

by SAMODULAR

	Designator	Quantity	Description	Mouser Part#
<b>Diodes</b>				
1N457	D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13	13		<a href="#">512-1N457</a>
1N5228	Z1	1		<a href="#">78-1N5228B</a>
1R	R1	1	5% 1W	<a href="#">294-1.0-RC</a>
100R	R15, R81, R119, R201, R284, R288	6	5% 1/4W	<a href="#">291-100-RC</a>
220R	R64, R261	2	5% 1/4W	<a href="#">291-220-RC</a>
470R	R285	1	5% 1/4W	<a href="#">291-470-RC</a>
680R	R147, R148, R157, R272A, R292	5	5% 1/4W	<a href="#">291-680-RC</a>
820R	R65	1	5% 1/4W	<a href="#">291-820-RC</a>
1K	R118	1	1% 1/4W	<a href="#">271-1K-RC</a>
1K	R23, R144, R214A, R248A, R259, R263	6	5% 1/4W	<a href="#">291-1K-RC</a>
1.8K	R208	1	5% 1/4W	<a href="#">291-1.8K-RC</a>
2.2K	R177, R255	2	5% 1/4W	<a href="#">291-2.2K-RC</a>
2.49K	R125	1	1% 1/4W	<a href="#">271-2.49K-RC</a>
3.3K	R143, R150, R216	3	5% 1/4W	<a href="#">291-3.3K-RC</a>
4.7K	R54, R172, R173, R248, R250, R258, R260, R262	8	5% 1/4W	<a href="#">291-4.7K-RC</a>
4.99K	R56, R66, R153, R155	4	1% 1/4W	<a href="#">271-4.99K-RC</a>
6.8K	R27, R130, R142, R152, R179, R210A, R276A, R290	8	5% 1/4W	<a href="#">291-6.8K-RC</a>
10K	R53, R55, R126, R156, R186, R238, R246, R249, R251	9	1% 1/4W	<a href="#">271-10K-RC</a>
10K	R8, R18, R42, R46, R47, R56A, R60, R61, R67, R71, R73, R76, R79, R88, R90, R91, R92, R96, R97, R102, R114, R161, R162, R164A, R169A, R178, R182, R192, R195, R206, R213, R220A, R221, R225, R229, R233, R237, R241, R244, R268, R275, R276, R278, R281, R294	45	5% 1/4W	<a href="#">291-10K-RC</a>
12K	R165, R219, R280	3	5% 1/4W	<a href="#">291-12K-RC</a>
15K	R247	1	1% 1/4W	<a href="#">271-15K-RC</a>
15K	R50, R158, R214, R279	4	5% 1/4W	<a href="#">291-15K-RC</a>
18K	R185	1	5% 1/4W	<a href="#">291-18K-RC</a>
20K	R51, R175, R187, R272	4	1% 1/4W	<a href="#">271-20K-RC</a>
22K	R29, R131, R149, R209, R217, R218, R286, R290A	8	5% 1/4W	<a href="#">291-22K-RC</a>
24K	R49, R164	2	5% 1/4W	<a href="#">291-24K-RC</a>
24.9K	R242, R243	2	1% 1/4W	<a href="#">271-24.9K-RC</a>
28.7K	R154	1	1% 1/4W	<a href="#">271-28.7K-RC</a>
30K	R120, R226	2	1% 1/4W	<a href="#">271-30K-RC</a>
30.1K	R176, R273	2	1% 1/4W	<a href="#">271-30.1K-RC</a>
33K	R224	1	1% 1/4W	<a href="#">271-33K-RC</a>
33K	R16, R24, R48A, R68, R69, R85, R94, R95, R116, R145, R146, R163, R181, R202, R205, R215, R283, R289, R293	19	5% 1/4W	<a href="#">291-33K-RC</a>
39K	R82, R196	2	5% 1/4W	<a href="#">291-39K-RC</a>
43.2K	R236	1	1% 1/4W	<a href="#">271-43.2K-RC</a>
47K	R13, R25, R129, R180, R184	5	5% 1/4W	<a href="#">291-47K-RC</a>
49.9K	R62, R174, R234, R274	4	1% 1/4W	<a href="#">271-49.9K-RC</a>
56K	R232	1	1% 1/4W	<a href="#">271-56K-RC</a>
56K	R19, R113A	2	5% 1/4W	<a href="#">291-56K-RC</a>
62K	R63	1	5% 1/4W	<a href="#">291-62K-RC</a>
68K	R222, R228	2	1% 1/4W	<a href="#">271-68K-RC</a>

68K	R9, R10, R21, R52, R103, R104, R123, R171, R212	9	5% 1/4W	<a href="#">291-68K-RC</a>
75K	R271	1	1% 1/4W	<a href="#">271-75K-RC</a>
82K	R83, R291	2	5% 1/4W	<a href="#">291-82K-RC</a>
91K	R230	1	1% 1/4W	<a href="#">271-91K-RC</a>
100K	R12, R20, R30, R115, R223, R227, R231, R235, R239, R240	10	1% 1/4W	<a href="#">271-100K-RC</a>
100K	R26, R39, R43, R44, R59, R70, R72, R72A, R74, R89, R93, R98, R99, R101, R128, R132, R140, R141, R183, R193, R194, R197, R199, R207, R256, R269, R270, R282	28	5% 1/4W	<a href="#">291-100K-RC</a>
121K	R21A, R123A	2	1% 1/4W	<a href="#">271-121K-RC</a>
130K	R170, R204	2	5% 1/4W	<a href="#">291-130K-RC</a>
150K	R19A, R113	2	1% 1/4W	<a href="#">271-150K-RC</a>
150K	R198, R203	2	5% 1/4W	<a href="#">291-150K-RC</a>
220K	R121	1	5% 1/4W	<a href="#">291-220K-RC</a>
240K	R220	1	5% 1/4W	<a href="#">291-240K-RC</a>
300K	R204A, R257	2	5% 1/4W	<a href="#">291-300K-RC</a>
330K	R28, R124	2	5% 1/4W	<a href="#">291-330K-RC</a>
470K	R40, R100, R211	3	5% 1/4W	<a href="#">291-470K-RC</a>
1M	R71A, R73A, R96A, R97A, R245A, R245B	6	5% 1/4W	<a href="#">291-1M-RC</a>
1.2M	R245	1	5% 1/4W	<a href="#">291-1.2M-RC</a>
1.5M	R27A, R130A	2	5% 1/4W	<a href="#">291-1.5M-RC</a>
3.3M	R49A	1	5% 1/4W	<a href="#">291-3.3M-RC</a>
4.7M	R41	1	5% 1/4W	<a href="#">291-4.7M-RC</a>
10M	R281A	1	5% 1/4W	<a href="#">291-10M-RC</a>
1K TEMPCO	R22, R122	2	1% 1/4W	<a href="#">Thonk</a>

Trimmers				
5K	TR2, TR3	2	Single turn	<a href="#">652-3362P-1-502LF</a>
20K	Across R290A (Amp-mod)	1	Multiturn	<a href="#">652-3296W-1-203LF</a>
20K	TR1	1	Single turn	<a href="#">652-3362P-1-203LF</a>

Capacitors				
10pF	C28A	1	Ceramic 5mm	<a href="#">810-FG28COG1H100DNT6</a>
22pF	C18	1	Ceramic 5mm	<a href="#">810-FG28COG1H220JNT6</a>
47pF	C31, C32, C33, C34	4	Ceramic 5mm	<a href="#">810-FG28COG1H470JNT6</a>
100pF	C1, C4, C14, C15, C17, C21, C22A, C24, C27A, C30	10	Ceramic 5mm	<a href="#">810-FG28COG1H101JNT6</a>
220pF	C2, C8A, C9, C11, C20A, C27	6	Ceramic 5mm	<a href="#">810-FG28COG1H221JNT6</a>
470pF	C22, C23A, C28	3	Ceramic 5mm	<a href="#">810-FG28COG1H471JNT6</a>
2nF	C23	1	Ceramic 5mm	<a href="#">810-FG28COG1H222JNT6</a>
4.7nF	C8, C20	2	Film 10mm LS	<a href="#">871-B32621A6472J</a>
10nF	C7, C19, C24A, F1, F2, F3, F4	7	Ceramic 5mm	<a href="#">810-FG28COG1H103JNT6</a>
47nF	C5, C6, C13, C24B	4	Ceramic 5mm	<a href="#">810-FG26COG1H473JNT0</a>
180nF	C10, C12	2	Film 10mm LS	<a href="#">667-ECQ-E2184IF</a>
1uF	C25, C26, C29, C36	4	Tantalum axial	<a href="#">74-173D105X9035VWE3</a>
2.2uF	C16A	1	Tantalum axial	<a href="#">74-173D35V2.2</a>
4.7uF	C37, C38	2	Tantalum axial	<a href="#">74-173D475X9035WWE3</a>
10uF	C35	1	Tantalum axial	<a href="#">74-173D106X9035XWE3</a>
47uF	C3, C16	2	Tantalum axial	<a href="#">74-173D476X9010XE3</a>

ICs				
J201	Q9	1	or selected 2N4339	<a href="#">106-J201</a>
KC-811	Q1, Q5	2		<a href="#">SAMODULAR</a>
2N3806	Q2, Q6	2		<a href="#">SAMODULAR</a>
2N3958 / LS3958	Q10/11	1		eBay / Micross
PN3565	Q3, Q4, Q7, Q8, Q12, Q13	6		<a href="#">610-PN3565</a>
CA3130	IC36, IC37, IC38, IC39, IC40	5	8pin DIP	<a href="#">968-CA3130EZ</a>
LM301AN	IC12, IC19	2	8pin DIP	eBay
LM311	IC6, IC22, IC25	3	8pin DIP	<a href="#">595-LM311P</a>

DG445	IC4, IC5, IC17, IC23, IC24	5	16pin DIP	<a href="#">781-DG445DJ-E3</a>
CD4001	IC9, IC14	2	14pin DIP	<a href="#">595-CD4001BE</a>
CD4030	IC8, IC13	2	14pin DIP	<a href="#">595-CD4030BE</a>
CD4040	IC11, IC15	2	16pin DIP	<a href="#">595-CD4040BE</a>
CD4555	IC7	1	16pin DIP	<a href="#">595-CD4555BE</a>
74LS05	IC10, IC16	2	14pin DIP	<a href="#">595-SN74LS05N</a>
TL072	IC1, IC2, IC3, IC18, IC20, IC21, IC26, IC27, IC28, IC29, IC30, IC31, IC32, IC33, IC34, IC35	16	8pin DIP	<a href="#">595-TL072IP</a>

<b>Misc</b>				
DIP sockets		26	8-pin	<a href="#">SAMODULAR</a>
DIP sockets		6	14-pin	<a href="#">SAMODULAR</a>
DIP sockets		8	16-pin	<a href="#">SAMODULAR</a>
PLD-26	PLD1, PLD2	2	26pin header (male)	<a href="#">SAMODULAR</a>
Ribbon cable		2	26pin GPIO	<a href="#">SAMODULAR</a>
VTL5C3	V-C, V-E, V-F	3	Single vactrol	<a href="#">SAMODULAR</a>
VTL5C3/2	V-A, V-B, V-D, V-G, V-H	5	Dual vactrol	<a href="#">SAMODULAR</a>