

DUAL SIN SAWTOOTH GENERATOR MODEL 158

<https://imustscream.cc>

Resistors (1/4W*, +-5%)

Value	Parts	Qty	Description	
2.2R	R53, R98	2		1/2W!
47R	R13, R66	2		
150R	R2, R57	2		
220R	R52, R104	2		
470R	R15, R37, R67, R89	4		
1k	R44, R49, R96, R102	4		
1.5k	R3, R8, R18, R23, R28, R29, R42, R43, R58, R61, R70, R76, R80, R81, R94, R95	16		
2.2k	R14, R19, R22, R36, R50, R68, R72, R74, R87, R103	10		
3.3k	R1, R7, R9, R16, R34, R35, R47, R48, R59, R62, R71, R88, R100, R101	14		
4.7k	R27, R38, R39, R45, R46, R82, R90, R91, R97, R99	10		
6.8k	R24, R25, R32, R77, R78, R83, RX, RX1	8		
6.8k	R30, R31, R85, R86	4		1%
10k	R20, R21, R26, R51, R73, R75, R79, R105	8		
15k	R33, R84	2		
33k	R6, R60	2		
150k	R10, R63	2		
330k	R40, R41, R92, R93	4		
2.2M	R11, R12, R64, R65	4		
1K	R4, R5, R17, R69, R106, R107	6	3296W Trimmer	
A50K	R54, R56, R109, R110	4	9mm vertical snap-in pot, Alpha	
B10K	R55, R108	2	9mm vertical snap-in pot, Alpha	

Capacitors

22pF	C6, C17	2	Ceramic, C0G. Green
47pF	C3, C14	2	Ceramic, C0G. Green
	C8, C18	0	Don't populate
910pF	C10, C20	2	Silver Mica (Brown)
4.7nF	C2, C13	2	CBB (Red)
1.5nF	C11, C21	2	CBB (Red)
1uF	C1, C7	2	Tantalum, TH 50v
15uF	C9, C19	2	Tantalum, SMD, D/7343-31W
47uF	C12, C22	2	Tantalum, SMD, D/7343-31W
56uF	C4, C5, C15, C16	4	Tantalum, Axial

Diodes

1N4148	D1, D2, D3, D4, D5, D6	6	
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Transistors

2N3904	(Q1, Q2), Q4, Q8, (Q9, Q10), Q11, Q16, Q17, Q18, (Q19, Q20), Q22, Q26, (Q27, Q28), Q29, Q34, Q35, Q36, QX, QX1	22	(Q1, Q2), (Q9, Q10), (Q19, Q20), (Q27, Q28) - Matched
2N3906	Q3, (Q5, Q6), (Q12, Q13), Q14, Q21, (Q23, Q24), (Q30, Q31), Q32	12	(Q5, Q6), (Q12, Q13), (Q23, Q24), (Q30, Q31) - Matched
2N5020	Q7, Q25	2	
J201	Q15, Q33	2	

Mechanical

Banana Jack (Black)	2	
Thonkiconn Jack	6	
Standoffs	4	
Switch	1	
Small knobs	4	
Large knobs	2	