

Title	MFOS SoundLab Mini Synth
Revision	1
Date	2017-10-04
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Company	David Haillant
Comment 1	SMD Clone
Comment 2	
Comment 3	
Comment 4	
Total Parts	200
Total Unique Parts	79

Ref	Qty	Value	Footprint	Comments	Voltage
C10 C11 C15 C19 C20 C101 C102	7	100n	dhaillant_smd:CAP-C-1206		
C6 C7	2	100p	dhaillant_smd:CAP-C-1206		
C16 C18	2	100u	dhaillant_th_capacitors:CAP-PRD-2.5-D7	TH 2.5 mm pin pitch	16V
C12	1	10n	dhaillant_smd:CAP-C-1206		
C8 C9 C2 C1	4	1n	dhaillant_smd:CAP-C-1206		
C22	1	1u	dhaillant_th_capacitors:CAP-PRD-2-D5	TH 2 mm pin pitch, Bipolar	
C3	1	2u	dhaillant_th_capacitors:CAP-PRD-2-D5	TH 2 mm pin pitch	
C13	1	2u	dhaillant_th_capacitors:CAP-PRD-2-D5	TH 2 mm pin pitch, Bipolar	
C21 C17	2	330p	dhaillant_smd:CAP-C-1206		
C14	1	4n7	dhaillant_smd:CAP-C-1206		
C4 C5	2	560p	dhaillant_smd:CAP-C-1206		
				All 1206 caps: use C0G and X7R	
D8	1	9v1	dhaillant_smd:SOD-323F	9,1 Volts Zener	
D9 D10 D7 D1 D3 D4 D2 D5	8	1N4148	dhaillant_smd:SOD-323F		
h1	1	Front panel	frontpanel:frontpanel_3u_33hp		
h2	1	PCB			
J1	1	Main Output	perso_jack:JACK_3.5_MONO_VERT_ERTHENVAR	or WQP-PJ398SM*	
J2	1	CV1	perso_jack:JACK_3.5_MONO_VERT_ERTHENVAR	or WQP-PJ398SM*	
J3	1	CV2	perso_jack:JACK_3.5_MONO_VERT_ERTHENVAR	or WQP-PJ398SM*	
J4	1	ExtGateIn	perso_jack:JACK_3.5_MONO_VERT_ERTHENVAR	or WQP-PJ398SM*	
K101	1	Euro Power	dhaillant_conn_he10:HE10_10D	2.54 mm 2x5 boxed header	
M1 M2 M3 M4	4	Mounting_Hole_Connected	dhaillant_mechanical_parts:1PIN-3-MIRE-DS		
P1	1	PROTO_4X6	dhaillant_proto:proto_4x6		
P2 P3	2	PROTO_1X6	dhaillant_proto:proto_1x6		
Q1 Q3 Q2 Q4 Q7	5	BC547	perso_transistors:TO92		
Q5 Q6	2	MPF102	perso_transistors:TO92	Replacement part need to confirm	
Q8	1	BC547	dhaillant_smd:SOT-23-HS	use TO92*	
Q101	1	2N1711	perso_transistors:TO39EBC	not used*	
RM1 RM3	2	100	dhaillant_potentiometres:RVAR-T910X	multi turn, vert. Angled	
RM2 RM4	2	475	dhaillant_smd:RES-C-1206		
R94 R6	2	510	dhaillant_smd:RES-C-1206		
R27	1	100k	dhaillant_potentiometres:POT_mono_alpha-p9_angled_hc		

mfos slms

R55 R58 R85 R90 R92 R15 R19 R44 R38 R29 R48 R37	12	100k	dhaillant_potentiometres:POT_mono_alpha-p9_angled_hc	
R62 R54 R68 R73 R63 R57 R69 R74 R79 R86 R93 R1 R4 R12 R14 R24 R36	17	100k	dhaillant_smd:RES-C-1206	
R64 R65 R103 R102 R199 R26 R32	7	10k	dhaillant_smd:RES-C-1206	
R17 R30 R33 R39	4	150k	dhaillant_smd:RES-C-1206	
R88 R98 R22 R23 R34 R45 R35	7	1k	dhaillant_smd:RES-C-1206	
R10 R11	2	1M	dhaillant_potentiometres:POT_mono_alpha-p9_angled_hc	
R56 R66 R59 R67 R87 R91 R95 R99 R97 R96 R2 R8 R9	13	1M	dhaillant_smd:RES-C-1206	
R84 R89 R28 R31	4	200k	dhaillant_smd:RES-C-1206	
R70 R72 R80 R42 R46 R40 R47 R43	8	20k	dhaillant_smd:RES-C-1206	
R77 R82 R78 R83	4	220k	dhaillant_smd:RES-C-1206	
R60 R61	2	2k	dhaillant_th_resistors:RES-ADV-2.54-W0.8-D2.54	Temperature Compensation TH
R5 R13	2	2M	dhaillant_smd:RES-C-1206	
R21	1	33k	dhaillant_smd:RES-C-1206	
R50 R52	2	39k	dhaillant_smd:RES-C-1206	
R7	1	3M	dhaillant_smd:RES-C-1206	
R71 R16 R20 R18	4	470k	dhaillant_smd:RES-C-1206	
R75 R76 R104 R101 R49	5	47k	dhaillant_smd:RES-C-1206	
R81 R41	2	4k7	dhaillant_smd:RES-C-1206	
R100 R3	2	4M7	dhaillant_smd:RES-C-1206	
R25	1	620k	dhaillant_smd:RES-C-1206	
All 1206 resistors: 0.25W; ±1%				
S1	1	Manual Gate/Trig	dhaillant_conn_pinhead:PINHEAD1-2	
S2	1	AR Repeat	dhaillant_switches:mini_lever_switch_spdt_LP	
S3	1	AR Mode	dhaillant_switches:mini_lever_switch_spdt_LP	
S6	1	BP/LP	dhaillant_switches:mini_lever_switch_spdt_LP	
S9	1	Sync	dhaillant_switches:mini_lever_switch_spdt_LP	
S10	1	VCO2 Ramp/Rect	dhaillant_switches:mini_lever_switch_spdt_LP	
S11 S12 S4 S7	4	AR	dhaillant_switches:mini_lever_switch_spdt_LP	
S13 S14 S5 S8	4	LFO	dhaillant_switches:mini_lever_switch_spdt_LP	
S15	1	PWM	dhaillant_switches:mini_lever_switch_spdt_LP	
S16	1	Wave	dhaillant_switches:mini_lever_switch_spdt_LP	3 position lever switch*
S17	1	Range	dhaillant_switches:mini_lever_switch_spdt_LP	
S18	1	Tri/Rect	dhaillant_switches:mini_lever_switch_spdt_LP	
TP201	1	VCO1	dhaillant_mechanical_parts:PINTST	
TP202	1	VCO2	dhaillant_mechanical_parts:PINTST	
TP301	1	LFO	dhaillant_mechanical_parts:PINTST	
TP401	1	Noise	dhaillant_mechanical_parts:PINTST	
TP501	1	AR	dhaillant_mechanical_parts:PINTST	
TP601	1	+9V	dhaillant_mechanical_parts:PINTST	
TP602	1	-9V	dhaillant_mechanical_parts:PINTST	
TP603	1	GND	dhaillant_mechanical_parts:PINTST	
TP801	1	BP	dhaillant_mechanical_parts:PINTST	
TP802	1	LP	dhaillant_mechanical_parts:PINTST	
U1	1	40106	dhaillant_smd_soic:SOIC-14-N-3.90	
U2	1	TL072	dhaillant_smd_soic:SOIC-8-N-3.90	
U3 U4	2	LM13700	dhaillant_smd_soic:SOIC-16-N-3.90	
U5 U6 U7	3	TL074	dhaillant_smd_soic:SOIC-14-N-3.90	
U101	1	78L09	perso_transistors:TO92	
U102	1	79L09	perso_transistors:TO92	

\* : see text

BOM made with KICAD\_BOM\_WIZARD ([https://github.com/HashDefineElectronics/KiCad\\_BOM\\_Wizard.git](https://github.com/HashDefineElectronics/KiCad_BOM_Wizard.git))  
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