

# Bill Of Materials

## Simmons SDS-3 Voice MOTM SMD

Qty	Value	Parts	Device
<b>Resistors :</b>			
7	470R	R25, R44, R45, R46, R67, R71, R73	0805 Resistor Metal 1%
2	820R	R34, R39	0805 Resistor Metal 1%
7	1K	R36, R37, R40, R42, R57, R64, R65	0805 Resistor Metal 1%
1	1K8	R43	0805 Resistor Metal 1%
3	3K3	R18, R41, R104	0805 Resistor Metal 1%
1	3K9	R47	0805 Resistor Metal 1%
6	10K	R50, R51, R60, R61, R68, R100	0805 Resistor Metal 1%
2	22K	R35, R56	0805 Resistor Metal 1%
2	33K	R70, R105	0805 Resistor Metal 1%
5	56K	R21, R32, R38, R48, R49	0805 Resistor Metal 1%
4	68K	R24, R28, R106, R107	0805 Resistor Metal 1%
7	100K	R16, R30, R33, R74, R75, R101, R102	0805 Resistor Metal 1%
3	150K	R23, R27, R29	0805 Resistor Metal 1%
3	270K	R12, R13, R22	0805 Resistor Metal 1%
4	390K	R11, R14, R55, R69	0805 Resistor Metal 1%
1	820K	R53	0805 Resistor Metal 1%
2	1M	R10, R62	0805 Resistor Metal 1%
1	2M7	R52	0805 Resistor Metal 1%
1	10M	R76	0805 Resistor Metal 1%
<b>Potentiometers :</b>			
5	100KB	BEND, DEPTH, IMPACT, PITCH, RATE	ALPHA 9mm Vertical Mount - Linear
1	22KB	TONE	ALPHA 9mm Vertical Mount - Linear
1	470KA	DECAY	ALPHA 9mm Vertical Mount - Logarithmic
2	100K	NULL, OFFSET	Trimmer Bourns 3296W
1	100K	GAIN	Trimmer Bourns 3362P or 3386K
<b>Capacitors :</b>			
1	220P	C14	0805 Capacitor Ceramic
1	2N2	C4	0805 Capacitor Ceramic COG/NPO
4	10n	C6, C7, C8, C9	0805 Capacitor Ceramic COG/NPO
3	100n	C2, C13, C15	0805 Capacitor Ceramic
2	100n	C102, C103	1206 Capacitor Ceramic (decoupling)
1	470n	C3	0805 Capacitor Ceramic COG/NPO
2	1uF/25V	C10, C11	POLARIZED CAPACITOR, PANASONIC B 4x5,4m
1	10uF/25V	C5	POLARIZED CAPACITOR, PANASONIC B 4x5,4m
2	10uF/50V	C100, C101	POLARIZED CAPACITOR, PANASONIC D 6,3x5,4
<b>Diodes :</b>			
4	1N4148	D1, D2, D3, D4 Texte	SOD-80 DIODE
1	LED 5mm	D7	LED (on PCB)
1	LED 5mm	D6	LED (on panel)
<b>Transistors :</b>			
1	2N3904	T8	NPN TRANSISTOR - SOT23
2	BC847	T3, T6	NPN TRANSISTOR - SOT23
2	BC857	T2, T7	PNP TRANSISTOR - SOT23
2	BF545	T4, T5	N-CHANNEL FET - SOT23
<b>Integrated Circuits :</b>			
1	UA741D	IC1	OP AMP - SO08
3	LM1458D	IC2, IC3, IC7	OP AMP - SO08

3	CA3046M	IC4, IC5, IC6	NPN Transistor Array - SO14
1	LM13700	U1	OP AMP - SO14
1	LM301AD	IC11	OP AMP - SO08
<b>Switches :</b>			
1	shape	S1	SPDT TOGGLE SWITCH On-On
1	speed	S2	SPDT TOGGLE SWITCH On-On
1	on/off	S3	SPDT TOGGLE SWITCH On-On
1	up/down	S4	SPDT TOGGLE SWITCH On-On
<b>Misc.</b>			
2	FB_110	L1, L2	1206 FERRITE BEAD
1	MTA04-156	J3	AMP connector
1	MTA05-100	J2	AMP connector