

555 Noise Box BOM								
Item #	Reference Designator	Qty	Manufacturer	Mfg Part #	Description / Value	Package/Footprint	Type	Instructions / Notes
1	C1,C3,C5,C7,C8,C9,C10,C12,C14,C15,C16,C17,C24,C26,C28,C30	16	Samsung	CL21B104KBCNNWC	Capacitor MLCC 100nF+/-10% 50V X7R 0805	0805	SMD	
2	C2,C27,C31	3	Kemet	EDK106M016A9BAA	CAP ALUM 10UF 20% 16V SMD	SMD	SMD	
3	C4,C11	2	Samsung	CL21B473KBCNNNC	CAP CER 0.047UF 50V X7R 0805	0805	SMD	
4	C6,C13	2	Samsung	CL21B103KBCNNNC	CAP CER 10000PF 50V X7R 0805	0805	SMD	
5	C18,C19,C20,C21,C22,C23	6	Samsung	CL21A105KBCLNNC	Capacitor MLCC 1uF+/-10% 50V X5R 0805	0805	SMD	
6	C25,C29,R16,R17,R18,R23,R24,R25	0						Do Not Install
7	D1, D2, D5	3	Würth Elektronik	150080VS75000	LED GREEN CLEAR 0805 SMD	0805	SMD	
8	D3,D6	2	Würth Elektronik	150080YS75000	LED YELLOW CLEAR 0805 SMD	0805	SMD	
9	D4,D7	2	Würth Elektronik	150080SS75000	LED RED CLEAR 0805 SMD	0805	SMD	
10	J1,J2,J4	3	Sullins	PREC003SAAN-RC	Connector Header Through Hole 3 position 0.1"	3POS	THRU-HOLE	
11	J3,J5	2	Sullins	PREC002SAAN-RC	Connector Header Through Hole 2 position 0.1"	2POS	THRU-HOLE	
12	R1,R4,R6,R7,R8,R9,R10,R11,R33	9	Panasonic	ERJ-6GEYJ102V	RES SMD 1K OHM 5% 1/8W 0805	0805	SMD	
13	R2,R3,R5,R12,R13,R14,R19,R20,R21,R27,R28,R30,R31,R32,R34,R35,R36,R37	18	Panasonic	ERJ-6GEYJ103V	RES SMD 10K OHM 5% 1/8W 0805	0805	SMD	
14	R15,R22,R38	3	Panasonic	ERJ-6GEYJ101V	RES SMD 100 OHM 5% 1/8W 0805	0805	SMD	
15	R26,R29	2	Panasonic	ERJ-6GEYJ682V	RES SMD 6.8K OHM 5% 1/8W 0805	0805	SMD	
16	TP1,TP2,TP3,TP4,TP5,TP6,TP7,TP8,TP9,TP10,TP11,TP12,TP13,TP14,TP15	0						Do Not Install
17	U1	1	Microchip	ATTINY1604-SSNR	IC MCU 8BIT 16KB FLASH 14SOIC	14SOIC	SMD	
18	U2	1	Microchip	MCP23S17-E/SO	IC XPNDR 10MHZ SPI 28SOIC	28SOIC	SMD	
19	U3,U8	2	Texas Instruments	CD4066BM96	IC QUAD BILATERAL SWITCH 14SOIC	14SOIC	SMD	
20	U4,U9	2	Texas Instruments	SN74HC74DR	IC FF D-TYPE DUAL 1BIT 14SOIC	14SOIC	SMD	
21	U5,U10,U14	3	Microchip	MCP42100-I/SL	IC DGT POT 100KOHM 256TAP 14SOIC	14SOIC	SMD	
22	U6,U11	2	Texas Instruments	NE555DR	IC OSC SGL TIMER 100KHZ 8-SOIC	8SOIC	SMD	
23	U7,U12,U13,U15	4	Microchip	MCP6001T-I/OT	IC OPAMP GP 1 CIRCUIT SOT23-5	SOT-23-5	SMD	