

Bill of Materials for ES05 - Noise Source Full Kit V0.0

Item	Description	Qty	Designator	Package
<b>HARDWARE</b>				
1	M3 Thumbscrew	2		-
			NB: Construct-A-Rack	
2	M3 x 6mm Bolt PH	2		-
			NB: Doefper Compatible Rails	
<b>PANEL</b>				
3	ES05 - Noise Source Front Panel A	1		-
<b>KITS</b>				
4	ES05 - Noise Source PCB Set V0.0	1		-
5	ES05 - Noise Source Hardware Kit V0.0	1		-
6	ES05 - Noise Source Component Kit V0.0	1		-

Bill of Materials for ES05 - Noise Source Component Kit V0.0 - 3

Item	Description	Qty	Designator	Package

Bill of Materials for ES05 - Noise Source Component Kit V0.0 - Noise

Item	Description	Qty	Designator	Package
<b>CAPACITOR</b>				
1	10pF 5% Ceramic	1	C102	RAD-0.2N
2	2.2nF 63V Polyester	1	C105	RAD-0.2
3	10nF 63V Polyester	2	C107, C108	RAD-0.2
4	10nF 5% Ceramic, Medium K	1	C203	RAD-0.2N
5	1uF 50V Electrolytic	3	C101, C104, C106	RB-D5.0-P2.0
6	47uF Electrolytic	2	C103, C109	RB-D6.3-P2.5
<b>CONNECTOR</b>				
7	IDC16 RA Box Header	1	J201	2.54MM
8	14-pin IC Socket 0.3inch	1	U101	DIP-14
<b>HARDWARE</b>				
9	9mm Earth Tag	1	PANEL_GND	-
<b>LINEAR</b>				
10	LM3900 - Quad Norton Amplifier	1	U101	DIP-14
<b>RESISTOR</b>				
11	330R 1% 0.5W Metal Film	1	R115	AXIAL-0.4
12	1K0 1% 0.5W Metal Film	2	R107, R117	AXIAL-0.4
13	10K 1% 0.5W Metal Film	1	R116	AXIAL-0.4
14	15K 1% 0.5W Metal Film	1	R105	AXIAL-0.4
15	33K 1% 0.5W Metal Film	2	R110, R112	AXIAL-0.4
16	47K 1% 0.5W Metal Film	1	R118	AXIAL-0.4
17	100K 1% 0.5W Metal Film	3	R104, R109, R113	AXIAL-0.4
18	220K 1% 0.5W Metal Film	2	R101, R114	AXIAL-0.4
19	330K 1% 0.5W Metal Film	1	R111	AXIAL-0.4
20	470K 1% 0.5W Metal Film	1	R102	AXIAL-0.4
21	1M0 1% 0.5W Metal Film	2	R103, R106	AXIAL-0.4
22	2M2 1% 0.5W Metal Film	1	R108	AXIAL-0.4

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Item	Description	Qty	Designator	Package
	<b>TRANSISTOR</b>			
23	BC557B PNP Transistor	1	Q102	TO-92
24	PN4250 PNP Transistor	1	Q101	TO-92
	<b>TRIMPOT</b>			
25	10K 25TH Cermet	1	P101	3296X

Bill of Materials for ES05 - Noise Source Component Kit V0.0 - S&H

Item	Description	Qty	Designator	Package
	<b>CAPACITOR</b>			
1	22pF 10% Ceramic	1	C106	RAD-0.2N
2	1nF 63V Polyester	2	C102, C105	RAD-0.2
3	10nF 63V Polyester	2	C101, C103	RAD-0.2
4	100nF 63V Polyester	1	C104	RAD-0.2
5	100nF Ceramic Capacitor	1	C203	RAD-0.2N
	<b>CONNECTOR</b>			
6	IDC16 RA Box Header	1	J201	2.54MM
7	8-pin IC Socket 0.3inch	1	U102	DIP-8
8	14-pin IC Socket 0.3inch	1	U101	DIP-14
	<b>DIODE</b>			
9	1N4148	1	D101	DIODE-0.3
	<b>LINEAR</b>			
10	CA3130 Opamp	1	U102	DIP-8
	<b>LOGIC</b>			
11	CD4007 - Dual Complimentary Pair plus Inverter	1	U101	DIP-14
	<b>RESISTOR</b>			
12	Wire Link	1	LK201	TO FIT
13	330R 1% 0.5W Metal Film	1	R111	AXIAL-0.4
14	820R 1% 0.5W Metal Film	1	R112	AXIAL-0.4
15	3K3 1% 0.5W Metal Film	1	R113	AXIAL-0.4
16	8K2 1% 0.5W Metal Film	1	R108	AXIAL-0.4
17	10K 1% 0.5W Metal Film	1	R201	AXIAL-0.4
18	18K 1% 0.5W Metal Film	1	R109	AXIAL-0.4
19	22K 1% 0.5W Metal Film	1	R202	AXIAL-0.4
20	33K 1% 0.5W Metal Film	1	R104	AXIAL-0.4
21	47K 1% 0.5W Metal Film	2	R102, R103	AXIAL-0.4
22	100K 1% 0.5W Metal Film	3	R105, R106, R110	AXIAL-0.4

Bill of Materials for ES05 - Noise Source Component Kit V0.0 - S&H

Item	Description	Qty	Designator	Package
<b>RESISTOR - continued</b>				
23	2M2 1% 0.5W Metal Film	1	R101	AXIAL-0.4
<b>SWITCH</b>				
24	SPDT PB PCB RA [ON-MOM]	1	S101	-
<b>TRANSISTOR</b>				
25	BC557B PNP Transistor	2	Q102, Q201	TO-92
26	BC547B NPN Transistor	1	Q101	TO-92

Bill of Materials for ES05 - Noise Source Component Kit V0.0 - Back Board

Item	Description	Qty	Designator	Package
<b>CAPACITOR</b>				
1	10uF 35V Electrolytic	2	C101, C102	RB-D5.0-P2.0
<b>CONNECTOR</b>				
2	IDC16 Box Header	1	J101	2.54MM
3	IDC16 Receptacle	2	J102, J103	-
<b>INDUCTOR</b>				
4	Ferrite Bead - 0.45uH 7A	2	L101, L102	AXIAL-0.3
<b>UNITS</b>				
5	Panther - IDC16 - 24cm	1	J101	-

Bill of Materials for ES05 - Noise Source Hardware Kit V0.0 - 3

Item	Description	Qty	Designator	Package







Bill of Materials for ES05 - Noise Source PCB Set V0.0

Item	Description	Qty	Designator	Package
	<b>PCB</b>			
1	ES05 - Noise Source Column 2 PCB V0.2	1		-
2	ES05 - Noise Source Column 1 PCB V0.2	1		-
3	ES05 - Noise Source Back PCB V0.2	1		-
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