

Bill of Materials for ES78 - VCA [4mm] Full Kit V0.0

Item	Description	Qty	Designator	Package
	HARDWARE			
1	M3 x 6mm Bolt PH	2		-
2	M3 Thumbscrew	2		-
	PANEL			
3	ES78 - VCA Front Panel A	1		-
	KITS			
4	ES78 - VCA [4mm] Hardware Kit V0.0	1		-
5	ES78 - VCA PCB Set V0.0	1		-
6	ES78 - VCA Component Kit V0.0	1		-

Bill of Materials for ES78 - VCA Component Kit V0.0

Item	Description	Qty	Designator	Package
CAPACITOR				
1	47pF 5% Ceramic	1	C202	RAD-0.2N
2	10nF 5% Ceramic, Medium K	2	C504, C505	RAD-0.2N
3	100nF Ceramic	2	C506, C507	RAD-0.2N
4	100nF 63V Polyester	1	C201	RAD-0.2
5	10uF 35V Electrolytic	3	C501, C502, C503	RB-D5.0-P2.0
CONNECTOR				
6	1x4 Pin 16mm Header	3	J102, J202, J203	-
7	IDC16 Box Header	1	J501	2.54MM
8	8-pin IC Socket 0.3inch	1	U202	DIP-8
9	16-pin IC Socket 0.3inch	1	U201	DIP-16
DIODE				
10	1N4148	1	D101	DIODE-0.3
11	6V2 5% 500mW	1	D501	DIODE-0.3
HARDWARE				
12	9mm Earth Tag	1	PANEL_GND	-
LINEAR				
13	LM13700 - Dual OTA	1	U201	DIP-16
14	TL071 JFET Opamp	1	U202	DIP-8
INDUCTOR				
15	Ferrite Bead - 0.45uH 7A	2	L501, L502	AXIAL-0.3
POTENTIOMETER				
16	20KB LIN - 18T Spline	1	P102	ALPHA 16MM
RESISTOR				
17	330R 1% 0.5W Metal Film	3	R203, R206, R210	AXIAL-0.4
18	1K0 1% 0.5W Metal Film	2	R103, R108	AXIAL-0.4

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Item	Description	Qty	Designator	Package
	RESISTOR - continued			
19	2K2 1% 0.5W Metal Film	2	R107, R501	AXIAL-0.4
20	10K 1% 0.5W Metal Film	1	R207	AXIAL-0.4
21	22K 1% 0.5W Metal Film	5	R102, R104, R109, R201, R204	AXIAL-0.4
22	47K 1% 0.5W Metal Film	1	R211	AXIAL-0.4
23	68K 1% 0.5W Metal Film	3	R202, R205, R209	AXIAL-0.4
24	82K 1% 0.5W Metal Film	2	R105, R106	AXIAL-0.4
25	150K 1% 0.5W Metal Film	1	R212	AXIAL-0.4
26	220K 1% 0.5W Metal Film	1	R101	AXIAL-0.4
27	15M 5% 0.5W Carbon Film	1	R208	AXIAL-0.4
	TRANSISTOR			
28	BC557B PNP Transistor	3	Q101, Q102, Q103	TO-92
	TRIMPOT			
29	20K 25TV Cermet	1	P103	T93YA
30	50K 25TV Cermet	2	P101, P201	T93YA
	UNITS			
31	Panther - IDC16 - 24cm	1	J501	-

Bill of Materials for ES78 - VCA [4mm] Hardware Kit V0.0

Item	Description	Qty	Designator	Package
	CONNECTOR			
1	4mm PCB Socket - White	1		-
2	4mm PCB Socket - Blue	3		-
3	4mm PCB Socket - Black	1		-
	HARDWARE			
4	KNOB - Panther Hi-contrast Blue	1		18T SPLINE

Bill of Materials for ES78 - VCA PCB Set V0.0

Item	Description	Qty	Designator	Package
	PCB			
1	ES78 - VCA PCB V0.2	1		-
2	Panther Carrier PCB V1	3		-
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