

Bill of Materials for ES18 - VCM-3 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	ES18 - VC Wave Multiplier VCM3 Front Panel A	1		-
	<b>KITS</b>			
4	ES18 - VCM3 PCB Set V0.0	1		-
5	ES18 - VCM-3 Hardware Kit V0.0	1		-
6	ES18 - VCM-3 Component Kit V0.0	1		-

Bill of Materials for ES18 - VCM-3 Component Kit V0.0

Item	Description	Qty	Designator	Package
<b>CAPACITOR</b>				
1	33pF 5% Ceramic	4	C203, C302, C402, C406	RAD-0.2N
2	47pF 5% Ceramic	1	C202	RAD-0.2N
3	47nF 63V Polyester	4	C201, C301, C401, C405	RAD-0.2
4	100nF Ceramic Capacitor	2	C503, C504	RAD-0.2N
5	1uF 35V Bipolar Electrolytic	3	C204, C303, C403	RB-D6.3-P2.5
6	10uF 35V Electrolytic	2	C501, C502	RB-D5.0-P2.0
7	47uF Electrolytic	1	C404	RB-D6.3-P2.5
<b>CONNECTOR</b>				
8	1x4 Pin 20mm Header	2	J202, J402	-
9	IDC16 Box Header	1	J501	2.54MM
10	1x4 Pin 9mm Header	1	J101	2.54MM
11	14-pin IC Socket 0.3inch	2	U101, U102	DIP-14
<b>DIODE</b>				
12	1N4148	6	D201, D202, D301, D302, D401, D402	DIODE-0.3
13	6V8 5% 500mW	1	D403	DIODE-0.3
<b>HARDWARE</b>				
14	9mm Earth Tag	1	PANEL_GND	-
<b>LINEAR</b>				
15	LM3900 - Quad Norton Amplifier	2	U101, U102	DIP-14
<b>INDUCTOR</b>				
16	Ferrite Bead - 0.45uH 7A	2	L501, L502	-
<b>POTENTIOMETER</b>				
17	50KB LIN - 18T Spline	1	P101	ALPHA 16MM
<b>RESISTOR</b>				
18	3K3 1% 0.5W Metal Film	1	R409	AXIAL-0.4

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Item	Description	Qty	Designator	Package
	<b>RESISTOR - continued</b>			
19	100K 1% 0.5W Metal Film	5	R102, R201, R202, R407, R408	AXIAL-0.4
20	150K 1% 0.5W Metal Film	1	R103	AXIAL-0.4
21	220K 1% 0.5W Metal Film	2	R101, R104	AXIAL-0.4
22	330K 1% 0.5W Metal Film	1	R105	AXIAL-0.4
23	470K 1% 0.5W Metal Film	1	R106	AXIAL-0.4
24	820K 1% 0.5W Metal Film	3	R209, R305, R405	AXIAL-0.4
25	1M0 1% 0.5W Metal Film	5	R203, R204, R206, R210, R302	AXIAL-0.4
26	1M5 1% 0.5W Metal Film	1	R306	AXIAL-0.4
27	2M2 1% 0.5W Metal Film	4	R205, R301, R401, R406	AXIAL-0.4
28	10M 1% 0.5W Metal Film	6	R207, R208, R303, R304, R403, R404	AXIAL-0.4
	<b>UNITS</b>			
29	Panther - IDC16 - 24cm	1	J501	-

Bill of Materials for ES18 - VCM-3 Hardware Kit V0.0

Item	Description	Qty	Designator	Package
	<b>CONNECTOR</b>			
1	3.5mm Mono PCB Socket c/w Nut - White	1	J401	-
2	3.5mm Mono PCB Socket c/w Nut - Green	1	J402	-
3	3.5mm Mono PCB Socket c/w Nut - Blue	1	J101	-
4	3.5mm Mono PCB Socket c/w Nut - Black	2	J201, J202	-
	<b>HARDWARE</b>			
5	KNOB - Panther Hi-contrast Blue	1	P101	18T SPLINE

Bill of Materials for ES18 - VCM3 PCB Set V0.0

Item	Description	Qty	Designator	Package
<b>PCB</b>				
1	ES18 - VCM3 PCB V0.2	1		-
2	Panther Carrier PCB V1A	3		-
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