



Bill of Materials for ES33 - VCFQ Full Kit P0.0  
**Column 1 [ES33 - VCFQ Component Kit]**

Item	Description	Qty	Designator	Package
	<b>CAPACITOR</b>			
1	47pF 5% Ceramic	2	C103, C104	RAD-0.2N
2	220pF 5% Ceramic	2	C102, C105	RAD-0.2N
3	1nF 63V Polyester	1	C101	RAD-0.2
4	10uF 35V Electrolytic	2	C1, C4	RB-D5.0-P2.0
	<b>CONNECTOR</b>			
5	1x4 Pin 16mm Header	2	J101, J104	-
6	14-pin IC Socket 0.3inch	1	U101	DIP-14
7	IDC10 Box Header	1	J3	2.54MM
8	IDC10 RA Box Header	1	J103	-
	<b>DIODE</b>			
9	1N4148	5	D101, D102, D103, D104, D105	DIODE-0.3
	<b>LINEAR</b>			
10	TL074 Quad JFET Opamp	1	U101	DIP-14
	<b>INDUCTOR</b>			
11	Ferrite Bead - 5A	2	L1, L2	AXIAL-0.3
	<b>POTENTIOMETER</b>			
12	50KB LIN - 18T Spline	3	P101, P102, P103	ALPHA 16MM
	<b>RESISTOR</b>			
13	Do Not Fit	1	R121	-
14	330R 1% 0.5W Metal Film	2	R112, R120	AXIAL-0.4
15	1K0 1% 0.5W Metal Film	1	R102	AXIAL-0.4
16	2K0 1% 0.5W Metal Film	1	R114	AXIAL-0.4
17	15K 1% 0.5W Metal Film	2	R111, R119	AXIAL-0.4
18	22K 1% 0.5W Metal Film	2	R116, R117	AXIAL-0.4
19	47K 1% 0.5W Metal Film	3	R101, R110, R113	AXIAL-0.4



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**Column 2 [ES33 - VCFQ Component Kit]**

Item	Description	Qty	Designator	Package
<b>CAPACITOR</b>				
1	Do Not Fit	1	C204	-
2	22pF 10% Ceramic	2	C205, C206	RAD-0.2N
3	220pF 2.5% Polystyrene	2	C202, C208	AXIAL-0.4W
4	100nF Ceramic	5	C1, C2, C3, C4, C5	RAD-0.2N
5	100nF 63V Polyester	3	C201, C203, C207	RAD-0.2
<b>CONNECTOR</b>				
6	8-pin IC Socket 0.3inch	1	U201	DIP-8
7	1x4 Pin 16mm Header	3	J202, J204, J2062	-
8	2x3 Open Pin Header	1	S201	2.54MM
9	1x8 Pin Receptacle	3	GC1, GC2, GC3	2212S
10	IDC10 RA Box Header	1	J207	-
<b>DIODE</b>				
11	5.1V 5% 500mW	2	D201, D202	DIODE-0.3
			NB: See Build Guide	
<b>HARDWARE</b>				
12	M2.5 x 12mm Spacer Threaded	3	GC1, GC2, GC3	-
13	M2.5 x 6mm Pan Head Bolt	6	GC1^2, GC2^2, GC3^2	-
<b>LINEAR</b>				
14	LM358 - Dual Opamp	1	U201	DIP-8
<b>POTENTIOMETER</b>				
15	50KB LIN - 18T Spline	1	P201	ALPHA 16MM
<b>RESISTOR</b>				
16	330R 1% 0.5W Metal Film	4	R203, R204, R205, R213	AXIAL-0.4
17	47K 1% 0.5W Metal Film	3	R206, R210, R212	AXIAL-0.4
18	100K 1% 0.5W Metal Film	6	R201, R202, R207, R208, R209, R211	AXIAL-0.4

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**Column 2 [ES33 - VCFQ Component Kit]**

Item	Description	Qty	Designator	Package
<b>RESISTOR - continued</b>				
19	182K 1% 0.5W Metal Film	1	R214	AXIAL-0.4
<b>SWITCH</b>				
20	DPDT PCB RA [ON-ON]	1	S201	7201
<b>TRIMPOT</b>				
21	1M 25TV Cermet	1	P202	T93YA
<b>UNITS</b>				
22	Panther - IDC16-10 - 24cm	1	J207	-

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**Column 1 [ES33 - VCFQ Hardware Kit]**

Item	Description	Qty	Designator	Package
	<b>CONNECTOR</b>			
1	3.5mm Mono PCB Socket - Red	1	J101	-
2	3.5mm Mono PCB Socket - Blue	3	J102, J104, J105	-



