



Bill of Materials for ES79 - Ring Modulator Component Kit V0.0

Item	Description	Qty	Designator	Package
<b>CAPACITOR</b>				
1	47pF 5% Ceramic	1	C202	RAD-0.2N
2	10nF 5% Ceramic, Medium K	2	C304, C305	RAD-0.2N
3	100nF Ceramic	2	C306, C307	RAD-0.2N
4	100nF 63V Polyester	1	C203	RAD-0.2
5	470nF 63V Polyester	2	C101, C201	RAD-0.2X
6	10uF 35V Electrolytic	3	C301, C302, C303	RB-D5.0-P2.0
<b>CONNECTOR</b>				
7	1x4 Pin 20mm Header	3	J102, J202, J203	-
8	IDC16 Box Header	1	J301	2.54MM
9	8-pin IC Socket 0.3inch	1	U202	DIP-8
10	16-pin IC Socket 0.3inch	1	U201	DIP-16
<b>DIODE</b>				
11	1N4148	1	D101	DIODE-0.3
12	6V2 5% 500mW	1	D301	DIODE-0.3
<b>HARDWARE</b>				
13	9mm Earth Tag	1	PANEL_GND	-
<b>LINEAR</b>				
14	TL071 JFET Opamp	1	U202	DIP-8
15	LM13700 - Dual OTA	1	U201	DIP-16
<b>INDUCTOR</b>				
16	Ferrite Bead - 0.45uH 7A	2	L301, L302	AXIAL-0.3
<b>POTENTIOMETER</b>				
17	20KB LIN - 18T Spline	1	P103	ALPHA 16MM
<b>RESISTOR</b>				
18	330R 1% 0.5W Metal Film	3	R206, R207, R210	AXIAL-0.4

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Item	Description	Qty	Designator	Package
	<b>RESISTOR - continued</b>			
19	1K0 1% 0.5W Metal Film	2	R106, R107	AXIAL-0.4
20	2K2 1% 0.5W Metal Film	2	R102, R301	AXIAL-0.4
21	10K 1% 0.5W Metal Film	2	R101, R103	AXIAL-0.4
22	15K 1% 0.5W Metal Film	1	R208	AXIAL-0.4
23	22K 1% 0.5W Metal Film	4	R104, R110, R201, R203	AXIAL-0.4
24	47K 1% 0.5W Metal Film	1	R109	AXIAL-0.4
25	56K 1% 0.5W Metal Film	1	R213	AXIAL-0.4
26	68K 1% 0.5W Metal Film	2	R202, R209	AXIAL-0.4
27	100K 1% 0.5W Metal Film	1	R108	AXIAL-0.4
28	137K 1% 0.5W Metal Film	1	R204	AXIAL-0.4
29	150K 1% 0.5W Metal Film	1	R205	AXIAL-0.4
30	220K 1% 0.5W Metal Film	1	R105	AXIAL-0.4
31	1M0 1% 0.5W Metal Film	1	R211	AXIAL-0.4
	<b>TRANSISTOR</b>			
32	BC557B PNP Transistor	3	Q101, Q102, Q103	TO-92
	<b>TRIMPOT</b>			
33	10K 25TV Cermet	1	P101	3296W
34	20K 25TV Cermet	2	P102, P201	3296W
	<b>UNITS</b>			
35	Panther - IDC16 - 24cm	1	J301	-



