

ASM325 - VCO II Full Kit

Item	Description	Qty	Designator	Package
HARDWARE				
1	M3 x 10mm Bolt PH	8		-
			NB: -: -	
KITS				
2	ASM325 - VCO II PCB/Panel Set	1		-
3	ASM325 - VCO II Hardware Kit V0.4	1		-
4	ASM325 - VCO II Component Kit V0.4	1		-

Column 1 - VCO Core [ASM325 - VCO II Component Kit]

Item	Description	Qty	Designator	Package
	CAPACITOR			
1	Do Not Fit	1	C401	-
2	18pF 5% Ceramic	1	C203	RAD-0.2N
3	100pF 5% Ceramic	1	C201	RAD-0.2N
4	2200pF 2.5% Polystyrene	1	C202	AXIAL-0.6
5	100nF Ceramic	4	C402, C403, C404, C405	RAD-0.2N
6	100nF 63V Polyester	1	C204	RAD-0.2
	CONNECTOR			
7	IDC16 RA Box Header	1	J402	2.54MM
8	1x4 Pin 9mm Header	1	J202	2.54MM
9	1x2 Pin 9mm Header	2	JP100, JP101	2.54MM
10	1x4 Pin 16mm Header	1	J101	-
11	Jumper Shunt - Red	2	JP100, JP101	2.54MM
12	8-pin IC Socket 0.3inch	5	Q201, U101, U201, U202, U203	DIP-8
	DIODE			
13	1N4148	2	D201, D202	DIODE-0.3
	LINEAR			
14	LT1013CP - Dual Precision Opamp	1	U203	DIP-8
15	CA3140 Opamp	1	U201	DIP-8
16	LM311 - Comparator	1	U202	DIP-8
17	OP07 - Opamp	1	U101	DIP-8
	POTENTIOMETER			
18	100KB LIN - 18T Spline	3	P103, P104, P105	ALPHA 16MM
	RESISTOR			
19	TEMPCO - PT146 1K 3500ppm	1	Q201	AXIAL-0.5
20	0R Resistor	1	R401	AXIAL-0.4
21	47R 1% 0.5W Metal Film	1	R108	AXIAL-0.4

Column 1 - VCO Core [ASM325 - VCO II Component Kit]

Item	Description	Qty	Designator	Package
	RESISTOR - continued			
22	680R 1% 0.5W Metal Film	1	R206	AXIAL-0.4
23	3K3 1% 0.5W Metal Film	1	R208	AXIAL-0.4
24	10K 1% 0.5W Metal Film	2	R202, R209	AXIAL-0.4
25	13K 1% 0.5W Metal Film	1	R210	AXIAL-0.4
26	15K 1% 0.5W Metal Film	2	R105, R207	AXIAL-0.4
27	47K 1% 0.5W Metal Film	1	R215	AXIAL-0.4
28	56K 1% 0.5W Metal Film	1	R107	AXIAL-0.4
29	91K 1% 0.5W Metal Film	1	R106	AXIAL-0.4
30	100K 0.1% Metal Film	1	R104	AXIAL-0.4
31	100K 1% 0.5W Metal Film	6	R101, R103, R204, R212, R213, R216	AXIAL-0.4
32	150K 1% 0.5W Metal Film	1	R102	AXIAL-0.4
33	887K 1% 0.5W Metal Film	1	R201	AXIAL-0.4
34	1M0 1% 0.5W Metal Film	1	R211	AXIAL-0.4
35	1M5 1% 0.5W Metal Film	1	R109	AXIAL-0.4
	TRANSISTOR			
36	LS312 - Dual Matched NPN Transistors	1	Q201	DIP-8
			NB: Marked as LS31F	
37	2N3904 NPN Transistor	1	Q203	TO-92
38	J108 JFET	1	Q202	TO-92
	TRIMPOT			
39	10K 25TH Cermet	1	P102	T93XA
40	50K 25TV Cermet	1	P201	T93YA
41	100K 25TH Cermet	1	P101	T93XA

Column 2 - WaveShaper [ASM325 - VCO II Component Kit]

Item	Description	Qty	Designator	Package
	CAPACITOR			
1	Do Not Fit	1	C401	-
2	180pF 5% Ceramic	1	C301	RAD-0.2N
3	100nF Ceramic	4	C403, C404, C405, C406	RAD-0.2N
	CONNECTOR			
4	IDC10 RA Box Header	1	J2	-
5	14-pin IC Socket 0.3inch	1	U201	DIP-14
6	16-pin IC Socket 0.3inch	1	U301	DIP-16
7	1x4 Pin 9mm Header	1	J203	2.54MM
8	1x4 Pin 16mm Header	2	J101, J202	-
9	8-pin IC Socket 0.3inch	1	U302	DIP-8
	DIODE			
10	BAT43 Schottky Diode	2	D301, D302	DIODE 0.3
	LINEAR			
11	LM13700 - Dual OTA	1	U301	DIP-16
12	TL074 Quad JFET Opamp	1	U201	DIP-14
13	TL072 Dual JFET Opamp	1	U302	DIP-8
	POTENTIOMETER			
14	100KB LIN - 18T Spline	2	P202, P203	ALPHA 16MM
	RESISTOR			
15	0R Resistor	2	R199, R401	AXIAL-0.4
16	330R 1% 0.5W Metal Film	1	R318	AXIAL-0.4
17	680R 1% 0.5W Metal Film	5	R209, R210, R211, R309, R321	AXIAL-0.4
18	1K0 1% 0.5W Metal Film	1	R312	AXIAL-0.4
19	2K0 1% 0.5W Metal Film	1	R208	AXIAL-0.4
20	2K2 1% 0.5W Metal Film	1	R205	AXIAL-0.4
21	3K3 1% 0.5W Metal Film	2	R305, R307	AXIAL-0.4

Column 2 - WaveShaper [ASM325 - VCO II Component Kit]

Item	Description	Qty	Designator	Package
	RESISTOR - continued			
22	5K1 1% 0.5W Metal Film	1	R317	AXIAL-0.4
23	10K 1% 0.5W Metal Film	5	R302, R303, R304, R306, R311	AXIAL-0.4
24	15K 1% 0.5W Metal Film	1	R308	AXIAL-0.4
25	47K 1% 0.5W Metal Film	1	R319	AXIAL-0.4
26	68K 1% 0.5W Metal Film	1	R301	AXIAL-0.4
27	100K 1% 0.5W Metal Film	6	R108, R201, R297, R298, R314, R316	AXIAL-0.4
28	200K 1% 0.5W Metal Film	1	R299	AXIAL-0.4
29	270K 1% 0.5W Metal Film	1	R106	AXIAL-0.4
30	390K 1% 0.5W Metal Film	1	R202	AXIAL-0.4
31	470K 1% 0.5W Metal Film	1	R310	AXIAL-0.4
32	634K 1% 0.5W Metal Film	1	R315	AXIAL-0.4
33	2M2 1% 0.5W Metal Film	1	R207	AXIAL-0.4
	TRIMPOT			
34	10K 25TV Cermet	1	P303	T93YA
35	50K 25TV Cermet	1	P302	T93YA
36	100K 20TV Cermet	3	P301, P304, P305	T93YA
37	500K 25TV Cermet	1	P201	T93YA
38	1M 25TV Cermet	1	P306	T93YA

Backboard - Power [ASM325 - VCO II Component Kit]

Item	Description	Qty	Designator	Package
CAPACITOR				
1	1uF 35V Tantalum	2	C3, C6	RB-D5.0-P5.0
2	10uF 35V Electrolytic	4	C1, C2, C4, C5	RB-D5.0-P2.0
CONNECTOR				
3	IDC16 Receptacle	1	J1	2.54MM
4	IDC10 Box Header	1	J3	2.54MM
5	IDC10 Receptacle	1	J2	2.54MM
DIODE				
6	1N4004 200V 1A	4	D1, D2, D3, D4	DIODE-0.4
LINEAR				
7	LM317LZ - Adjustable Positive Voltage Regulator	1	U1	TO-92
8	LM337LZ - Adjustable Negative Voltage Regulator	1	U2	TO-92
INDUCTOR				
9	Ferrite Bead - 0.45uH 7A	2	L1, L2	AXIAL-0.3
RESISTOR				
10	240R 1% 0.5W Metal Film	2	R2, R4	AXIAL-0.4
11	1K4 1% 0.5W Metal Film	2	R1, R3	AXIAL-0.4
TRIMPOT				
12	200R 25TV Cermet	2	P1, P2	T93YA
UNITS				
13	Panther - IDC16-10 - 24cm	1	J3	-

ASM325 - VCO II Hardware Kit

Item	Description	Qty	Designator	Package
	CONNECTOR			
1	3.5mm Mono PCB Socket - Red	1		-
2	3.5mm Mono PCB Socket - Blue	3		-
3	3.5mm Mono PCB Socket - White	4		-
	HARDWARE			
4	KNOB - EuroSynth	5		18T SPLINE

