ES15 - Smooth & Stepped Generator Full Kit

Item	Description	Qty	Designator	Package
	HARDWARE			
1	M3 x 10mm Bolt PH	4		-
			NB: EuroSynth	
2	M3 x 6mm Bolt PH	4		-
			NB: Doefper Compatible Rails	
	MODULE			
3	Passive 3.5mm Splitter	2		-
	KITS			
4	ES15 - Smooth & Stepped Generator PCB/Panel Set V0.0	1		-
5	ES15 - Smooth & Stepped Generator Hardware Kit V0.3	1		-
6	ES15 - Smooth & Stepped Generator Component Kit V0.3	1		-

Column 1 [ES15 - Smooth & Stepped Generator Component Kit]

Item	Description	Qty	Designator	Package
	CONNECTOR			
1	IDC16 RA Box Header	1	J5	2.54MM

Column 2 [ES15 - Smooth & Stepped Generator Component Kit]

Item	Description	Qty	Designator	Package
	CONNECTOR			
1	IDC16 RA Box Header	1	J6	2.54MM
	POTENTIOMETER			
2	50KB LIN - 18T Spline	4	P1, P2, P3, P4	ALPHA 16MM

Column 3 [ES15 - Smooth & Stepped Generator Component Kit]

Item	Description	Qty	Designator	Package
	CONNECTOR			
1	IDC16 RA Box Header	1	J5	2.54MM
	OPTO-ELECTRONIC			
2	3mm Red/Green LED	2	LED1B, LED3B	-

Column 4 [ES15 - Smooth & Stepped Generator Component Kit]

Item	Description	Qty	Designator	Package
	CONNECTOR			
1	IDC16 RA Box Header	1	J5	2.54MM
	OPTO-ELECTRONIC			
2	3mm HE-Red LED	1	LED2B	-

Main Board [ES15 - Smooth & Stepped Generator Component Kit]

Item	Description	Qty	Designator	Package
	CAPACITOR			
1	47pF 5% Ceramic	2	C102, C202	RAD-0.2N
2	100pF 5% Ceramic	1	C501	RAD-0.2N
3	1nF 63V Polyester	1	C401	RAD-0.2
4	2.2nF 63V Polyester	1	C402	RAD-0.2
5	100nF Ceramic	12	C603, C604, C605, C606, C607, C608, C609, C610, C611, C612, C613, C614	RAD-0.2N
6	100nF 63V Polyester	1	C101	RAD-0.2
7	220nF 63V Polyester	1	C201	RAD-0.2
8	10uF 35V Electrolytic	2	C601, C602	RB-D5.0-P2.0
	CONNECTOR			
9	IDC16 Receptacle	4	J101, J201, J301, J401	2.54MM
10	16-pin IC Socket 0.3inch	1	U101	DIP-16
11	8-pin IC Socket 0.3inch	3	U103, U201, U501	DIP-8
12	IDC16 Box Header	1	J401	2.54MM
13	14-pin IC Socket 0.3inch	2	U102, U202	DIP-14
	DIODE			
14	1N4148	8	D101, D102, D201, D202, D401, D402, D403, D501	DIODE-0.3
	LINEAR			
15	LM741 - GP Opamp	1	U501	DIP-8
16	LM13700 - Dual OTA	1	U101	DIP-16
17	TL072 Dual JFET Opamp	2	U103, U201	DIP-8
18	LM3900 - Quad Norton Amplifier	2	U102, U202	DIP-14
	INDUCTOR			
19	Ferrite Bead - 0.45uH 7A	2	L601, L602	AXIAL-0.3
	RESISTOR			
20	100R 1% 0.5W Metal Film	2	R109, R209	AXIAL-0.4
21	330R 1% 0.5W Metal Film	2	R106, R206	AXIAL-0.4

Main Board [ES15 - Smooth & Stepped Generator Component Kit]

Item	Description	Qty	Designator	Package
	RESISTOR - continued			
22	1K2 1% 0.5W Metal Film	3	R108, R208, R504	AXIAL-0.4
23	3K3 1% 0.5W Metal Film	5	R113, R213, R503, R505, R506	AXIAL-0.4
24	10K 1% 0.5W Metal Film	4	R107, R207, R501, R502	AXIAL-0.4
25	15K 1% 0.5W Metal Film	4	R304, R306, R410, R411	AXIAL-0.4
26	33K 1% 0.5W Metal Film	9	R101, R102, R103, R201, R202, R203, R303, R404, R409	AXIAL-0.4
			NB: DNF R409 until after calibration	
27	100K 1% 0.5W Metal Film	4	R301, R401, R403, R406	AXIAL-0.4
28	150K 1% 0.5W Metal Film	4	R305, R309, R412, R415	AXIAL-0.4
29	470K 1% 0.5W Metal Film	2	R110, R210	AXIAL-0.4
30	680K 1% 0.5W Metal Film	1	R405	AXIAL-0.4
31	820K 1% 0.5W Metal Film	2	R104, R205	AXIAL-0.4
32	1M0 1% 0.5W Metal Film	4	R105, R111, R204, R211	AXIAL-0.4
33	1M5 1% 0.5W Metal Film	3	R308, R408, R414	AXIAL-0.4
34	2M2 1% 0.5W Metal Film	2	R112, R212	AXIAL-0.4
35	2M7 1% 0.5W Metal Film	4	R302, R307, R402, R413	AXIAL-0.4
36	4M7 1% 0.5W Metal Film	1	R407	AXIAL-0.4
	TRANSISTOR			
37	J201 JFET	2	Q101, Q201	TO-92
38	PN4250 PNP Transistor	2	Q301, Q401	TO-92
	TRIMPOT			
39	20K 25TV Cermet	2	P301, P401	T93YA
	UNITS			
40	Panther - IDC16 - 24cm	1	J401	-

Column 1 [ES15 - Smooth & Stepped Generator Hardware Kit]

Item	Description	Qty	Designator	Package
	CONNECTOR			
1	3.5mm Mono PCB Socket - Blue	2	J2, J4	-
2	3.5mm Mono PCB Socket - Black	2	J1, J3	-

Column 2 [ES15 - Smooth & Stepped Generator Hardware Kit]

Item	Description	Qty	Designator	Package
	HARDWARE			
1	KNOB - EuroSynth	4	P1, P2, P3, P4	18T SPLINE

Column 3 [ES15 - Smooth & Stepped Generator Hardware Kit]

Item	Description	Qty	Designator	Package
	CONNECTOR			
1	3.5mm Mono PCB Socket - Yellow	2	J1, J4	-
2	3.5mm Mono PCB Socket - Red	2	J2, J3	-
	OPTO-ELECTRONIC			
3	3mm Clear Lens Mount	2	D1, D2	-

Column 4 [ES15 - Smooth & Stepped Generator Hardware Kit]

Item	Description	Qty	Designator	Package
	CONNECTOR			
1	3.5mm Mono PCB Socket - Grey	1	J2	-
2	3.5mm Mono PCB Socket - White	2	J1, J4	-
3	3.5mm Mono PCB Socket - Yellow	1	J3	-
	OPTO-ELECTRONIC			
4	3mm Clear Lens Mount	1	D1	-

Column 1 [ES15 - Smooth & Stepped Generator PCB/Panel Set]

Item	Description	Qty	Designator	Package
	PCB			
1	Panther Jack/Switch PCB V3.1	1	PCB1	-

Column 2 [ES15 - Smooth & Stepped Generator PCB/Panel Set]

Item	Description	Qty	Designator	Package
	PCB			
1	Panther Pot PCB V1.4	1	PCB1	-

Column 3 [ES15 - Smooth & Stepped Generator PCB/Panel Set]

Item	Description	Qty	Designator	Package
	PCB			
1	Panther Jack/LED Support PCB V5.3	1	PCB1	-

Column 4 [ES15 - Smooth & Stepped Generator PCB/Panel Set]

Item	Description	Qty	Designator	Package
	PCB			
1	Panther Jack/LED Support PCB V5.3	1	PCB1	-

Main Board [ES15 - Smooth & Stepped Generator PCB/Panel Set]

Item	Description	Qty	Designator	Package
	PCB			
1	ES15 - Smooth & Stepped Generator PCB P0.0	1	PCB1	-
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