ES22 - Resonant Equalizer Full Kit

Item	Description	Qty	Designator	Package
	HARDWARE			
1	M3 x 6mm Bolt PH	4	NB: Doefper Compatible Rails	-
2	M3 x 10mm Bolt PH	4	NB: EuroSynth	-
	KITS			
3	ES22 - Resonant Equalizer PCB/Panel Set V0.0	1		-
4	ES22 - Resonant Equalizer Hardware Kit V0.0	1		-
5	ES22 - Resonant Equalizer Component Kit V0.0	1		-

Column 1 [ES22 - Resonant Equalizer Component Kit]

Item	Description	Qty	Designator	Package
	CAPACITOR			
1	Do Not Fit	2	C311, C312	-
2	220pF 2.5% Polystyrene	2	C401, C402	AXIAL-0.4W
3	1nF 63V Polyester	2	C301, C302	RAD-0.2
4	4n7 63V Polyester	2	C201, C202	RAD-0.2
5	47nF 63V Polyseter	2	C101, C102	RAD-0.2
6	100nF Ceramic	2	C103, C104	RAD-0.2N
	CONNECTOR			
7	IDC10 RA Box Header	1	J101	-
8	8-pin IC Socket 0.3inch	4	U101, U201, U301, U401	DIP-8
	LINEAR			
9	TL071 JFET Opamp	3	U101, U201, U301	DIP-8
10	TL072 Dual JFET Opamp	1	U401	DIP-8
11	Do Not Fit	1	U302	-
	POTENTIOMETER			
12	50KB LIN - 18T Spline	4	P101, P201, P301, P401	ALPHA 16MM
	RESISTOR			
13	Wire Link	3	LK101_1, LK201_1, LK401_1	TO FIT
14	Do Not Fit	5	R311, R312, R313, R314, R315	-
15	10K 1% 0.5W Metal Film	1	R403	AXIAL-0.4
16	16K5 1% 0.5W Metal Film	1	R404	AXIAL-0.4
17	27K 1% 0.5W Metal Film	1	R302	AXIAL-0.4
18	33K 1% 0.5W Metal Film	1	R405	AXIAL-0.4
19	39K 1% 0.5W Metal Film	1	R101	AXIAL-0.4
20	43K 1% 0.5W Metal Film	1	R202	AXIAL-0.4
21	47K 1% 0.5W Metal Film	4	R104, R204, R301, R304	AXIAL-0.4
22	68K 1% 0.5W Metal Film	1	R201	AXIAL-0.4
23	91K 1% 0.5W Metal Film	1	R102	AXIAL-0.4

Column 1 [ES22 - Resonant Equalizer Component Kit]

Item	Description	Qty	Designator	Package
	RESISTOR - continued			
24	130K 1% 0.5W Metal Film	2	R401, R402	AXIAL-0.4
25	510K 1% 0.5W Metal Film	1	R103	AXIAL-0.4
26	620K 1% 0.5W Metal Film	1	R303	AXIAL-0.4
27	910K 1% 0.5W Metal Film	1	R203	AXIAL-0.4

Column 2 [ES22 - Resonant Equalizer Component Kit]

Item	Description	Qty	Designator	Package
	CAPACITOR			
1	Do Not Fit	2	C301, C302	-
2	220pF 2.5% Polystyrene	2	C401, C402	AXIAL-0.4W
3	680pF 2.5% Polystyrene	2	C311, C312	AXIAL-0.4
4	4n7 63V Polyester	2	C201, C202	RAD-0.2
5	22nF 63V Polyester	2	C101, C102	RAD-0.2
6	100nF Ceramic	2	C103, C104	RAD-0.2N
	CONNECTOR			
7	IDC10 RA Box Header	1	J101	-
8	8-pin IC Socket 0.3inch	4	U101, U201, U302, U401	DIP-8
	LINEAR			
9	TL071 JFET Opamp	2	U101, U201	DIP-8
10	TL072 Dual JFET Opamp	2	U302, U401	DIP-8
11	Do Not Fit	1	U301	-
	POTENTIOMETER			
12	50KB LIN - 18T Spline	4	P101, P201, P301, P401	ALPHA 16MM
	RESISTOR			
13	Wire Link	3	LK101_2, LK201_2, LK401_2	TO FIT
14	Do Not Fit	4	R301, R302, R303, R304	-
15	10K 1% 0.5W Metal Film	2	R314, R403	AXIAL-0.4
16	15K4 1% 0.5W Metal Film	1	R404	AXIAL-0.4
17	16K5 1% 0.5W Metal Film	1	R312	AXIAL-0.4
18	22K 1% 0.5W Metal Film	1	R202	AXIAL-0.4
19	30K 1% 0.5W Metal Film	1	R102	AXIAL-0.4
20	33K 1% 0.5W Metal Film	2	R315, R405	AXIAL-0.4
21	36K 1% 0.5W Metal Film	1	R201	AXIAL-0.4
22	47K 1% 0.5W Metal Film	2	R104, R204	AXIAL-0.4
23	51K 1% 0.5W Metal Film	1	R101	AXIAL-0.4

Column 2 [ES22 - Resonant Equalizer Component Kit]

Item	Description	Qty	Designator	Package
	RESISTOR - continued			
24	68K 1% 0.5W Metal Film	2	R401, R402	AXIAL-0.4
25	82K 1% 0.5W Metal Film	2	R311, R313	AXIAL-0.4
26	510K 1% 0.5W Metal Film	1	R203	AXIAL-0.4
27	680K 1% 0.5W Metal Film	1	R103	AXIAL-0.4

Column 3 [ES22 - Resonant Equalizer Component Kit]

Item	Description	Qty	Designator	Package
	CAPACITOR			
1	47pF 5% Ceramic	2	C101, C403	RAD-0.2N
2	2.2nF 63V Polyester	2	C301, C302	RAD-0.2
3	10nF 63V Polyester	2	C201, C202	RAD-0.2
4	100nF Ceramic	8	C503, C504, C505, C506, C507, C508, C509, C510	RAD-0.2N
5	4.7uF 25V Electrolytic	2	C401, C402	RB-D5.0-P2.0
6	10uF 35V Electrolytic	2	C501, C502	RB-D5.0-P2.0
	CONNECTOR			
7	1x4 Pin 16mm Header	2	J102, J401	-
8	14-pin IC Socket 0.3inch	1	U401	DIP-14
9	IDC10 RA Box Header	1	J502 NB: J502 See Build Guide	-
10	IDC16 Box Header	1	J501	2.54MM
11	8-pin IC Socket 0.3inch	4	U101, U201, U301, U402	DIP-8
	LINEAR			
12	TL071 JFET Opamp	3	U201, U301, U402	DIP-8
13	TL074 Quad JFET Opamp	1	U401	DIP-14
14	TL072 Dual JFET Opamp	1	U101	DIP-8
	INDUCTOR			
15	Ferrite Bead - 5A	2	L501, L502	AXIAL-0.3
	POTENTIOMETER			
16	50KB LIN - 18T Spline	2	P201, P301	ALPHA 16MM
17	50KA LOG - 18T Spline	1	P101	ALPHA 16MM
	RESISTOR			
18	Wire Link	2	J502_1, J502_2 NB: J501 See Build Guide	TO FIT
19	330R 1% 0.5W Metal Film	3	R105, R405, R407	AXIAL-0.4
			NB: R405, [3]R407 See Build Guide	
20	3K3 1% 0.5W Metal Film	1	R101	AXIAL-0.4

Column 3 [ES22 - Resonant Equalizer Component Kit]

Item	Description	Qty	Designator	Package
	RESISTOR - continued			
21	4K7 1% 0.5W Metal Film	2	R103, R104	AXIAL-0.4
22	24K 1% 0.5W Metal Film	1	R302	AXIAL-0.4
23	36K 1% 0.5W Metal Film	1	R202	AXIAL-0.4
24	43K 1% 0.5W Metal Film	1	R301	AXIAL-0.4
25	47K 1% 0.5W Metal Film	7	R204, R304, R401, R402, R403, R404, R406	AXIAL-0.4
26	62K 1% 0.5W Metal Film	1	R201	AXIAL-0.4
27	470K 1% 0.5W Metal Film	1	R102	AXIAL-0.4
28	560K 1% 0.5W Metal Film	1	R303	AXIAL-0.4
29	820K 1% 0.5W Metal Film	1	R203	AXIAL-0.4
	UNITS			
30	Panther - IDC16 - 24cm	1	J501	-

Column 1 [ES22 - Resonant Equalizer Hardware Kit]

Item	Description	Qty	Designator	Package
	HARDWARE			
1	KNOB - EuroSynth	4	P101, P201, P301, P401	18T SPLINE

Column 2 [ES22 - Resonant Equalizer Hardware Kit]

Item	Description	Qty	Designator	Package
	HARDWARE			
1	KNOB - EuroSynth	4	P101, P201, P301, P401	18T SPLINE

Column 3 [ES22 - Resonant Equalizer Hardware Kit]

Item	Description	Qty	Designator	Package
	CONNECTOR			
1	3.5mm Mono PCB Socket - Black	1	J101	-
2	3.5mm Mono PCB Socket - White	3	J102, J401, J402	-
	HARDWARE			
3	KNOB - EuroSynth	3	P101, P201, P301	18T SPLINE

ES22 - Resonant Equalizer PCB/Panel Set

Item	Description	Qty	Designator	Package
	PANEL			
1	ES22 - Resonant Equalizer Front Panel B	1		-
	PCB			
2	ES22 - Resonant Equalizer Support PCB V0.2	2		-
3	ES22 - Resonant Equalizer Main PCB V0.2	1		-
4	Panther Carrier PCB - JACK-SPDT V1.3	2	J102, J401	-
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