

Bill of Materials for ES114 - Universal Slope Generator Component Kit V0.0 - Column2

Item	Description	Qty	Designator	Package
	CAPACITOR			
1	100nF Ceramic Capacitor	2	C1, C2	RAD-0.2N
	CONNECTOR			
2	1x4 Pin 20mm Header	1	S1	-
3	IDC16 RA Box Header	1	J1	2.54MM
4	8-pin IC Socket 0.3inch	1	U1	DIP-8
	HARDWARE			
5	9mm Earth Tag	1	PANEL_GND	-
	LINEAR			
6	TL071 JFET Opamp	1	U1	DIP-8
	POTENTIOMETER			
7	50KB LIN - 18T Spline	3	P1, P2, P3	ALPHA 16MM
	RESISTOR			
8	33K 1% 0.5W Metal Film	2	R6, R7	AXIAL-0.4
9	47K 1% 0.5W Metal Film	2	R8, R9	AXIAL-0.4
10	82K 1% 0.5W Metal Film	2	R1, R10	AXIAL-0.4
11	470K 1% 0.5W Metal Film	1	R4	AXIAL-0.4
12	820K 1% 0.5W Metal Film	1	R3	AXIAL-0.4
13	1M0 1% 0.5W Metal Film	2	R2, R5	AXIAL-0.4
	SWITCH			
14	SPDT PCB RA [ON-OFF-ON]	1	J2	7103

Bill of Materials for ES114 - Universal Slope Generator Component Kit V0.0 - Main Board

Item	Description	Qty	Designator	Package
CAPACITOR				
1	47pF 5% Ceramic	2	C102, C103	RAD-0.2N
2	1nF 63V Polyester	1	C101	RAD-0.2
3	22nF 63V Polyester	1	C104	RAD-0.2
4	100nF Ceramic Capacitor	3	C303, C304, C305	RAD-0.2N
5	10uF 35V Electrolytic	2	C301, C302	RB-D5.0-P2.0
CONNECTOR				
6	IDC16 Receptacle	3	J101, J201, J302	-
7	IDC16 Box Header	1	J301	2.54MM
8	8-pin IC Socket 0.3inch	2	U102, U201	DIP-8
9	14-pin IC Socket 0.3inch	1	U101	DIP-14
DIODE				
10	5.6V 5% 500mW	1	D201	DIODE-0.3
11	1N4148	4	D101, D102, D103, D202	DIODE-0.3
LINEAR				
12	LM3900 - Quad Norton Amplifier	1	U101	DIP-14
13	LF353 - Dual JFET Opamp	1	U102	DIP-8
14	TL071 JFET Opamp	1	U201	DIP-8
INDUCTOR				
15	Ferrite Bead - 0.45uH 7A	2	L301, L302	-
RESISTOR				
16	100R 1% 0.5W Metal Film	1	R118	AXIAL-0.4
17	330R 1% 0.5W Metal Film	1	R213	AXIAL-0.4
18	1K0 1% 0.5W Metal Film	2	R205, R209	AXIAL-0.4
19	1K5 1% 0.5W Metal Film	1	R117	AXIAL-0.4
20	2K2 1% 0.5W Metal Film	3	R114, R115, R204	AXIAL-0.4
21	8K2 1% 0.5W Metal Film	1	R113	AXIAL-0.4
22	33K 1% 0.5W Metal Film	1	R103	AXIAL-0.4

