

Bill of Materials for ES37 - Quantizer Component Kit P0.1 - Column 1

Item	Description	Qty	Designator	Package
	CAPACITOR			
1	10nF 5% Ceramic, Medium K	9	C401, C402, C403, C404, C405, C406, C407, C408, C410	RAD-0.2N
2	100nF Ceramic Capacitor	1	C409	RAD-0.2N
	CONNECTOR			
3	IDC12 RA Box Header	1	J407	-
4	1x4 Pin 20mm Header	1	S401	-
5	1x4 Pin 9mm Header	4	J401, J402, J403, J404	2.54MM
6	16-pin IC Socket 0.3inch	1	U401	DIP-16
7	5-way 0.1inch Straight - Locking Header	1	J405	2.54MM
	LOGIC			
8	CD4051 - Single 8-channel Multiplexer	1	U401	DIP-16
	RESISTOR			
9	15K 1% 0.5W Metal Film	1	R415	AXIAL-0.4
10	33K 1% 0.5W Metal Film	8	R402, R404, R406, R408, R410, R411, R412, R414	AXIAL-0.4
11	43K 1% 0.5W Metal Film	1	R413	AXIAL-0.4
12	100K 1% 0.5W Metal Film	4	R401, R403, R405, R407	AXIAL-0.4
	SWITCH			
13	SPDT PCB RA [ON-OFF-ON]	1	S401	7103
	TRANSISTOR			
14	2N3904 NPN Transistor	1	Q401	TO-92

Bill of Materials for ES37 - Quantizer Component Kit P0.1 - Column 2

Item	Description	Qty	Designator	Package
CAPACITOR				
1	82pF 5% Ceramic	4	C502, C504, C506, C508	RAD-0.2N
2	10nF 63V Polyester	4	C501, C503, C505, C507	RAD-0.2
3	100nF Ceramic Capacitor	5	C509, C510, C511, C512, C513	RAD-0.2N
CONNECTOR				
4	IDC12 RA Box Header	1	J506	-
5	1x4 Pin 20mm Header	1	S501	-
6	1x4 Pin 9mm Header	4	J501, J502, J503, J504	2.54MM
7	8-pin IC Socket 0.3inch	2	U502, U503	DIP-8
8	16-pin IC Socket 0.3inch	1	U501	DIP-16
LINEAR				
9	LF353 - Dual JFET Opamp	2	U502, U503	DIP-8
LOGIC				
10	CD4051 - Single 8-channel Multiplexer	1	U501	DIP-16
RESISTOR				
11	330R 1% 0.5W Metal Film	4	R502, R504, R506, R508	AXIAL-0.4
12	15K 1% 0.5W Metal Film	1	R511	AXIAL-0.4
13	22K 1% 0.5W Metal Film	4	R501, R503, R505, R507	AXIAL-0.4
14	33K 1% 0.5W Metal Film	1	R510	AXIAL-0.4
15	43K 1% 0.5W Metal Film	1	R509	AXIAL-0.4
SWITCH				
16	SPDT PCB RA [ON-OFF-ON]	1	S501	7103
TRANSISTOR				
17	2N3904 NPN Transistor	1	Q501	TO-92

Bill of Materials for ES37 - Quantizer Component Kit P0.1 - Main

Item	Description	Qty	Designator	Package
CAPACITOR				
1	82pF 5% Ceramic	2	C101, C203	RAD-0.2N
2	220pF 5% Ceramic	2	C201, C202	RAD-0.2N
3	10nF 5% Ceramic, Medium K	1	C317	RAD-0.2N
4	100nF Ceramic Capacitor	7	C305, C306, C311, C312, C313, C314, C315	RAD-0.2N
5	10uF 35V Tantalum	1	C316	RB-D7.5-P5.0
6	10uF 35V Electrolytic	2	C301, C302	RB-D5.0-P2.0
CONNECTOR				
7	IDC10 Box Header	1	J301	2.54MM
8	IDC12 Receptacle	2	J302, J303	-
9	1x3 Open Pin Header	1	JP102	2.54MM
10	8-pin IC Socket 0.3inch	2	U202, U203	DIP-8
11	14-pin IC Socket 0.3inch	1	U101	DIP-14
12	16-pin IC Socket 0.3inch	4	U102, U103, U104, U201	DIP-16
13	Jumper Shunt	1	JP102	2.54mm
LINEAR				
14	TLC7524 - 8-bit D/A Converter	1	U201	DIP-16
15	TL431 - Precision Programmable Reference	1	D301	TO-92
16	LF353 - Dual JFET Opamp	1	U203	DIP-8
17	LM311 - Comparator	1	U202	DIP-8
INDUCTOR				
18	Ferrite Bead - 0.45uH 7A	2	L301, L302	-
LOGIC				
19	CD4093 - Quad 2-input NAND Schmitt trigger	1	U101	DIP-14
20	CD4520 - Dual Binary Up-Counter	3	U102, U103, U104	DIP-16
RESISTOR				
21	330R 1% 0.5W Metal Film	1	R206	AXIAL-0.4
22	6K8 1% 0.5W Metal Film	1	R301	AXIAL-0.4

