

Bill of Materials for ES01 - Random Voltage Generator Component Kit P0.3 - Column 2

Item	Description	Qty	Designator	Package
CAPACITOR				
1	5pF 10% Ceramic	1	C106	RAD-0.2N
2	82pF 5% Ceramic	1	C201	RAD-0.2N
3	2.2nF 63V Polyester	1	C105	RAD-0.2
4	100nF Ceramic Capacitor	2	C301, C302	RAD-0.2N
5	100nF 63V Polyester	1	C104	RAD-0.2
6	470nF 63V Polyester	2	C102, C103	RAD-0.2X
7	4u7 Ceramic X5R	2	C303, C304	0805
8	10uF 35V Tantalum	1	C101	RB-D7.5-P5.0
CONNECTOR				
9	IDC16 RA Box Header	1	J301	2.54MM
10	8-pin IC Socket 0.3inch	2	U101, U201	DIP-8
DIODE				
11	1N4148	1	D201	DIODE-0.3
LINEAR				
12	LM741 - GP Opamp	1	U201	DIP-8
13	TL082 Dual JFET Opamp	1	U101	DIP-8
INDUCTOR				
14	Ferrite Bead - 0.45uH 7A	2	L101, L102	AXIAL-0.3
OPTO-ELECTRONIC				
15	3mm Yellow LED	1	D202	2MA
RESISTOR				
16	330R 1% 0.5W Metal Film	2	R108, R109	AXIAL-0.4
17	560R 1% 0.5W Metal Film	1	R203	AXIAL-0.4
18	1K3 1% 0.5W Metal Film	1	R204	AXIAL-0.4
19	10K 1% 0.5W Metal Film	3	R105, R201, R202	AXIAL-0.4
20	22K 1% 0.5W Metal Film	1	R106	AXIAL-0.4

Bill of Materials for ES01 - Random Voltage Generator Component Kit P0.3 - Main

Item	Description	Qty	Designator	Package
CAPACITOR				
1	22pF 10% Ceramic	2	C302, C402	RAD-0.2N
2	470pF 5% C0G	1	C203	RAD-0.2N
3	1nF 63V Polyester	1	C202	RAD-0.2
4	10nF 63V Polyester	1	C201	RAD-0.2
5	33nF 63V Polyester	1	C401	RAD-0.2
6	100nF Ceramic Capacitor	7	C603, C604, C605, C606, C607, C608, C611	RAD-0.2N
7	150nF 63V Polyester	1	C301	RAD-0.2
8	10uF 35V Electrolytic	2	C601, C602	RB-D5.0-P2.0
CONNECTOR				
9	IDC16 Receptacle	2	J101, J201	-
10	IDC16 Box Header	1	J601	2.54MM
11	8-pin IC Socket 0.3inch	2	U302, U401	DIP-8
12	14-pin IC Socket 0.3inch	1	U201	DIP-14
13	16-pin IC Socket 0.3inch	1	U301	DIP-16
DIODE				
14	1N4148	5	D201, D202, D203, D204, D401	DIODE-0.3
LINEAR				
15	CA3140 Opamp	2	U302, U401	DIP-8
16	LM3900 - Quad Norton Amplifier	1	U201	DIP-14
17	LM13700 - Dual OTA	1	U301	DIP-16
INDUCTOR				
18	Ferrite Bead - 0.45uH 7A	2	L601, L602	AXIAL-0.3
RESISTOR				
19	330R 1% 0.5W Metal Film	3	R206, R310, R406	AXIAL-0.4
20	2K7 1% 0.5W Metal Film	1	R303	AXIAL-0.4
21	10K 1% 0.5W Metal Film	1	R402	AXIAL-0.4
22	12K 1% 0.5W Metal Film	1	R305	AXIAL-0.4

