

XORBell v1.1.2 karltrn.com/XORBell 2024-07 Logic and Drones - fun for all ages

Step	Ref	Qty	Value	Cmp name	Footprint	Description		
1	U1, U2, U3	3	TL074	TL074	Package_SO:SOIC-14_3.9x8.7mm_P1.27mm			
2	U4	1	TL072	TL072	Package_SO:SOIC-8_3.9x4.9mm_P1.27mm			
3	U5	1	4070	CD4070	Package_SO:SOIC-Quad Xor 2 inputs			
4	U6	1	40106	CD40106	Package_SO:SOIC-Hex Schmitt trigger inverter			
5	R1, R4	2	0R	jumper				
6	R2, R3, R5, R7, R8, R13, R18, R20, R23, R24, R26, R36, R37, R38, R40	15	100K	R	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder			
7	R6, R9, R10, R11, R12, R14, R15, R16, R17, R19, R21, R22, R25, R27, R28, R29, R30, R31, R34	19	10K	R-device	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder			
8	R32, R33, R39, R41, R42, R43	6	1K	R	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder			
9	R35	1	12K	R-device	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder			
10	R44, R45, R46, R47, R48	5	470K	R-device	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder			
11	D3, D4, D5, D6, D7	5	1N4148	D-device	Diode_SMD:D_1206_3216Metric_Pad1.42x1.75mm_HandSolder			
12	Q1, Q2, Q3, Q4, Q5	5	2N3906	Q_PNP_BEC	Package_TO_SOT_SIP_PNP transistor, base/emitter/collector			
13	Q6, Q7, Q8, Q9, Q10	5	2N3904	Q_NPN_BEC	Package_TO_SOT_SIP_NPN transistor, base/emitter/collector			
14	C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C19	12	100n	C-device	0805 generic			
15	C14, C15, C16, C17, C18	5	2n2	C-device	C0G or NP0 for accumulators			
16	C1, C2	2	10u	CP	Capacitor_THT:CP_Radial_D5.0mm_P2.50mm			
17	D1, D2	2	1N5819	D	Diode_THT:D_DO-41_SOD81_P10.16mm_Horizontal			
18	J9, J10	2	Conn_01x10	Conn_01x10	PinHeader_2.54mm:Male			
19	J11, J12	2	Conn_01x10	Conn_01x10	PinHeader_2.54mm:Female			
20	J13	1	Conn_02x05	Conn_02x05	Shrouded Header Power			
21	align all face plate items before soldering any.							
22	J1, J2, J4, J5	4	Jack_IAX	JACK_2P	Europi:Thonkiconn			
23	J3, J6, J7, J8	4	JACK_2P	JACK_2P	Europi:Thonkiconn			
24	RV1, RV3, RV4, RV7, RV8	5	B1K	R_Potentiom	Potentiometer_THT_Trim-potentiometer			
25	RV2, RV5, RV6, RV9	4	B100K	POT	Potentiometer_THT:Potentiometer_Alpha_RD901F-40-00D_Single_Vertical			
	knobs	4						
	power cable	1						
	screws	2						