

## PropKeyer – Bill of Materials

### Main Electronics Board

Part ID	Description	Value
--	Propeller Development Board	--
CON1	dual-row male header	20 contacts
X6, X7	single row male header	4 contacts
X2, X4, X8	single row header	2 contacts
Q1, Q2	NPN transistor	2N4401
D1	Schottky diode	1N5818
S5, S6	pushbutton switch, PCB mount	SPST, momentary contact
S1	rocker switch, panel mount	SPST
R13, R14, R16, R17, R22, R25	1/8 watt resistor	100 kohms, 5%
R18, R20, R26, R27	1/8 watt resistor	390 ohms, 5%
R12, R21	1/8 watt resistor	1.2 kohms, 5%
C5, C6, C7, C8	ceramic capacitor	0.1 uF, 10%, 50 vdc, X7R

### Front Panel Assembly

Part ID	Description	Value
CON2	dual-row male header	20 contacts
LED2	Light Emitting Diode, RED	
LED3	Light Emitting Diode, GREEN	
S7	pushbutton switch, panel mount	SPST, momentary contact
R24	linear potentiometer	100 kohms, 20%
R4, R19	1/8 watt resistor	330 ohms, 5%
R15	1/8 watt resistor	1.2 kohms, 5%
R28	1/8 watt resistor	6.8 kohms, 5%
R6, R7, R8, R9, R10	1/8 watt resistor	100 kohms, 5%
C9	ceramic capacitor	1.0 uF, 10%, 25 vdc, X5R

### Side Panel Assembly

Part ID	Description	Value
SP1	loudspeaker	1.5 inch dia, 6 ohms
R5	1/8 watt resistor	100 ohms, 5%
R11	linear potentiometer, with switch	1000 ohms, 20%

### Rear Panel Assembly

Part ID	Description	Value
X12	6-pin mini-DIN connector, female	
X13	3.5-mm stereo audio jack	
X14	3.5-mm mono audio jack	
X15	1/4-in. 'phone jack	