

Optical Touch Theremin

Bill of Materials

Part ID	Part Description
U2	Blue Pill STM32 module
U1	XC6206 regulator
U3	PT5211 DAC
U4	MCP5022 opamp
J1	ADPS-9960
RV1-RV3	Dial potentiometer, 10K
C1,C2	1uF capacitor 0805
C3,C10	10uF capacitor 0805
C5,C7	.1uF capacitor 0805
C4,C6	1000uF capacitor
C8	0.001uF capacitor 0805
C9	470pF capacitor 0805
R1	220 Ohm resistor 0805
R2,R3	150 Ohm resistor 0805
R5,R6	7.5K resistor 0805
J11	0.1" header, 2 pin
D8-D14	BAS70 diode array
D4-D7	Zener diode array
D1	5mm LED, Green
D2	5mm LED, Yellow
D3	5mm LED, Red
BASE	100mm Plastic Base
USB	USB connector module
AUDIO	3mm stereo jack
POWER WIRE	Red & black power wires
AUDIO WIRE	Female jumper wires
SCREWS	#2 sheet metal screws (2)
SCREWS	#4 machine screws (4)
PCB	PCB J210