

Adafruit Parts Pal

PRODUCT ID: 2975



Description

LEDs and passives and transistors and switches and op-amps oh my! The **Adafruit Parts Pal** is the ultimate companion for an entry-level maker learning electronics. This kit is your friend whenever you need to build up a project. It contains many of our most popular components and prototyping parts all wrapped up in one parts pack so you can open up and dig right in.

Kit Contents:

Prototyping:

- o 1x Storage box with latch
- o 1x Half-size breadboard
- o 20x Male/male jumper wires 3" (75mm)
- o 10x Male/male jumper wires 6" (150mm)

LEDs:

- o 5x 5mm Diffused green LEDs
- o 5x 5mm Diffused red LEDs
- o 1x 10mm Diffused Common-Anode RGB LED

Capacitors:

- o 10x 1.0uF Ceramic capacitors
- o 10x 0.1uF Ceramic capacitors
- o 10x 0.01uF Ceramic capacitors
- o 5x 10uF 50V Electrolytic capacitors
- o 5x 100uF 16V Electrolytic capacitors

Resistors:

- o 10x 560 ohm 5% axial resistors
- o 10x 1K ohm 5% axial resistors
- o 10x 10K ohm 5% axial resistors
- o 10x 47K ohm 5% axial resistors

Semiconductors:

- o 5x 1N4001 Diodes
- o 5x 1N4148 Signal Diodes
- o 5x NPN Transistor PN2222 TO-92
- o 5x PNP Transistor PN2907 TO-92
- o 2x 5V 1.5A Linear voltage regulator 7805 TO-220
- o 1x 3.3V 800mA Linear voltage regulator LD1117-3.3 TO-220
- o 1x TLC555 wide-voltage range, low-power 555 Timer
- o 1x LM358 Dual operational Amplifier

Sensors:

- o 1x Photocell
- o 1x Thermistor (Breadboard version)
- o 1x Vibration sensor switch
- o 1x 10K Breadboard trim potentiometer
- o 1x 1K Breadboard trim potentiometer

Mechanical:

- o 1x Piezo buzzer
- 5x 6mm Tactile switches
- o 3x SPDT slide switches
- o 1x 40-pin Break-away male header strip
- o 1x 40-pin female header strip

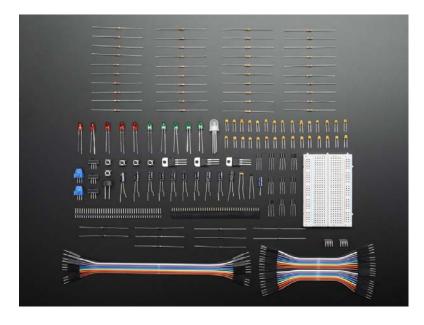
. Technical Details

Revision history

o As of July 20, 2016 we now include an LM358 dual opamp!

Datasheets:

- o TLC555
- o LM358
- o PN2222A
- o MPS2907A
- o LD1117
- o L7805CV
- o Eletrolytic Capacitor
- o Thermistor
 - Resistance at 25 degrees C: 10K +- 1%
 - B25/50 = 3950+- 1%
 - Thermal time constant <= 15 seconds
 - Thermistor temperature range -55 °C to 125 °C



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