

Breadboard Plugin Components Pack SKU:KIT0098



Overview

Breadboard-Plugin series is a new kit for breadboard experiment. It provides convenient, reliable and reusable components, plugins and modules. This innovative approach will solve the following issues when using a breadboard:

- The problem by using DIP type of components Hard to read the value (Resistor color codes) Severe deformations of the pin after used, non-reusable, not environment-friendly The pin diameter is too thin or too thick, poor match with the breadboard hole Confused the order of transistor "e", "b", "c" pins
- Usage problem: Most of sensors and actuators require 3 interfaces: Signal/VCC/GND, you have to use the jumper wire for the connection, messy and unreliable.

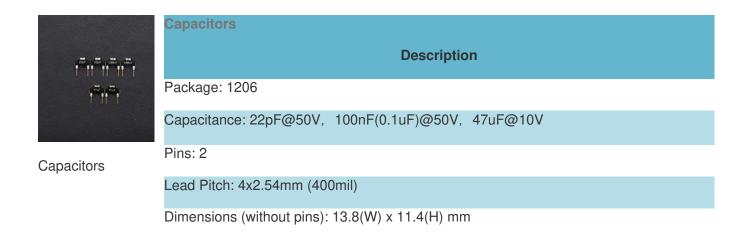
Features

- **Easy to recognize** : Resistance value, capacitance values, positive/negative polaron and pin functions are marked clearly.
- Easy to learn : The circuit symbol is clearly visible, directly match the circuit diagram
- Easy to use : Direct-plug pin
- Easy to Plug/unplug : The 0.64mm diametral pin matches the breadboard hole perfectly
- High-reliability : ENIG technology, the circuit connection is reliable and durable
- Environment-friendly : Reusable and Environment-friendly

Breadboard-Plugin is designed by Maker LeoYan, produced and sold by DFRobot

Specification

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	Description
	Package: 1206
	Resistance: 220R, 1K, 4.7K, 10K
	Pins: 2
	Lead Pitch: 4x2.54mm (400mil)
	Dimensions (without pins): 13.8 (w) x 11.4 (h) mm





Leds

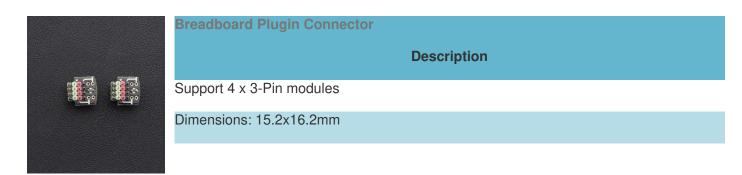
Leds		
Description		
Package: 1206 (PCB integrates current limiting resistance)		
Color: Red (R), Yellow (Y), Green (G), Blue (B)		
Pins: 2		
Lead Pitch: 4x2.54mm (400mil)		

Dimensions (without pins): 13.8(W) x 14.5(H) mm

	Diodes
CHCHCHC	Description
	Type: SS14 (Schottky Barrier Rectifiers)
	Parameter: If=1A, Vfm=0.7V, Vr=40V
	Pins: 2
Diodes	Lead Pitch: 4x2.54mm (400mil)
	Dimensions (without pins): 13.8(W) x 11.5(H) mm

	Transistor-NPN
	Description
aturte aturte	Туре: ВС817-25
	Parameter: Vceo=45V, Ic=500mA, hFE=400
	Pins: 3
Transistor-NPN	Lead Pitch: 2x2.54mm (200mil)
	Dimensions (without pins): 13.8(W) x 11.7(H) mm

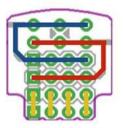
(\$10\$; (\$11\$;	Transistor-PNP
	Description
	Туре: ВС807-25
	Parameter: Vceo=-45V, Ic=-500mA, hFE=400
	Pins: 3
Transistor-PNP	Lead Pitch: 2x2.54mm (200mil)
	Dimensions (without pins): 13.8(W) x 10.7(H) mm



Breadboard Plugin Connector

Instructions

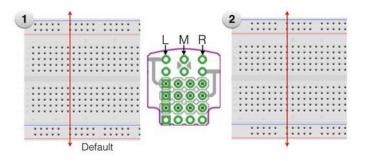
- 1. Breadboard Plugin Connector
- Circuit Schematic



Breadboard

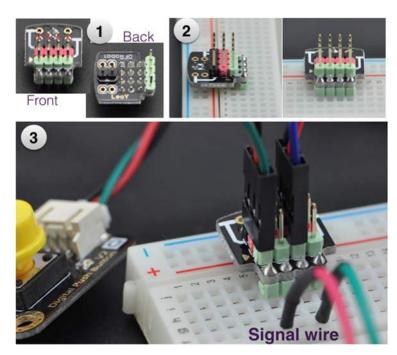
The kit supports following kinds of breadboard:

- Breadboard 1: it is the default supported breadboard, can use it directly.
- Breadboard 2: If using this kind of bread board, resolder Pin at "M" and solder the Pin to "L" or "R".



Usage tutorial

- 1. Recognize the front and back
- 2. Plug the back pins into Breadboard
- 3. Plug the Module on the breadboard plugin board. (Please notice the power polarities)



For any question/ advice/ cool idea to share with us, please visit **DFRobot Forum** or Email to Techsupport Team <techsupport@dfrobot.com>.