

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









RGB LED Breakout (3528) SKU:DFR0239

From Robt Wiki



RGB LED Breakout (3528)

Contents

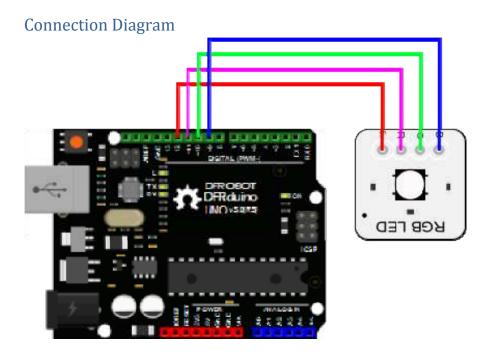
- 1 Introduction
- 2 Specification
- 3 Connection Diagram
- 4 Sample Code

Introduction

This small size breakout is programmable full-color RGB LED for hobbyists, industrial designers, prototypers, and experimenters. It is designed to allow the easy addition of dynamic indicators, displays, and lighting to existing or new projects. Controlled by PWM channels can be available in soft red, orange, yellow, green, blue and white...The high quality LED has wide viewing angle and optimized light coupling by inter reflector.

Specification

- Full color RGB LED
- Operating Voltage:5V
- Wide viewing angle
- White package
- Operating Temperature:-40°C to +85°C
- Size:13x13mm



Sample Code

As 3528 is a common anode component, the PWM value formula: **PWM=255-RGB**. For example: Purple(128,0,128)

```
int r=128;
int g=0;
int b=128; //purple

void setup()
{
   pinMode(9,OUTPUT);
   pinMode(10,OUTPUT);
   pinMode(11,OUTPUT);
   pinMode(12,OUTPUT);
}
void loop()
```