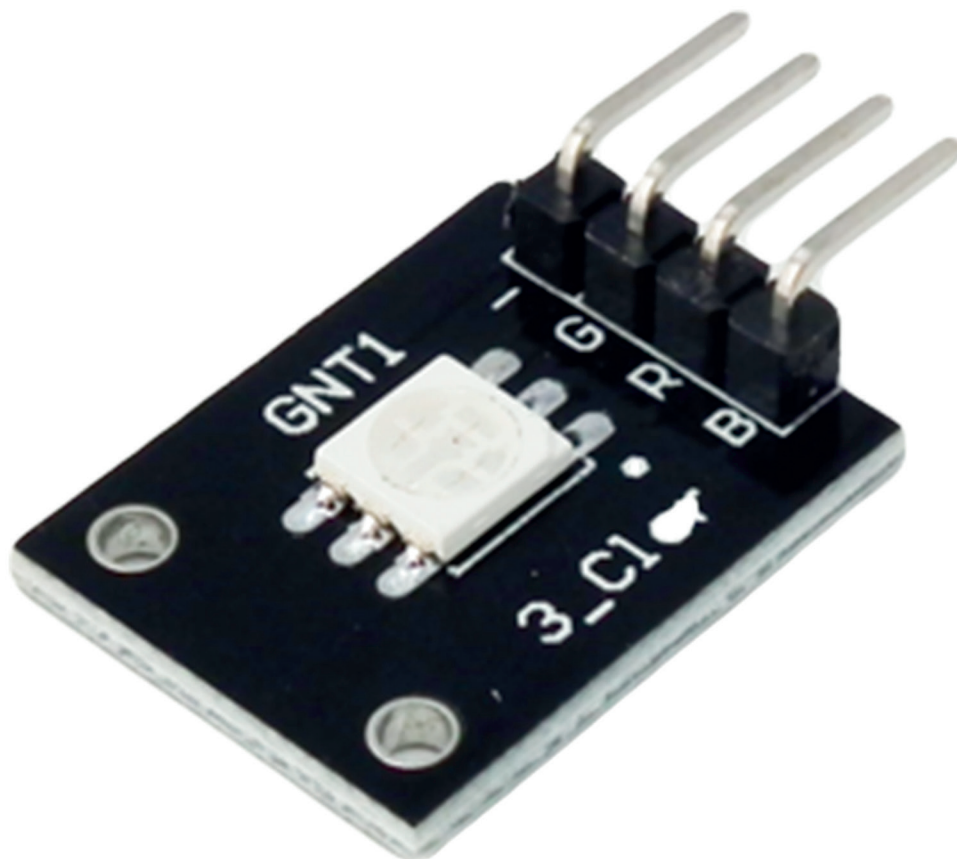


SMD RGB Modul Datenblatt



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1. Features

It is a led color control module the user can control the led colors by PWM input voltage the three primary colors (red / blue / green) strength can be controlled in order to achieve full color mixing effect so about 5050 different colors can be generated.

Features:

- RGB tricolor limiting resistor to prevent burn
- can interface with a variety of microcontrollers
- LED drive mode: common cathode drive
- Operating voltage:
 - 5V max
 - Red 1.8V ~2.4V
 - Green 2.8V ~ 3.6V
 - Blue 2.8V ~ 3.6V
- Forward Current:
 - 20mA ~ 30mA
- Operating Temperature: -25°C to 85°C [-13°F ~ 185°F]
- Dimensions: 18.5mm x 15mm [0.728in x 0.591in]

2. Connection with Arduino

pins	Arduino
R	PWM Pins
G	PWM Pins
B	PWM Pins
-	GND

3. Exmple Code

```
int redpin = 11; // select the pin for the red LED
int bluepin = 10; // select the pin for the blue LED
int greenpin = 9; // select the pin for the green LED
int val=0;
void setup () {
  pinMode (redpin, OUTPUT);
  pinMode (bluepin, OUTPUT);
  pinMode (greenpin, OUTPUT);
  Serial.begin (9600);
}

void loop () {
  for (val=255; val>0; val--)
  {
    analogWrite (redpin, val);
    analogWrite (bluepin, 255-val);
    analogWrite (greenpin, 128-val);
    delay (1);
  }
  for (val = 0; val <255; val++)
  {
    analogWrite (redpin, val);
    analogWrite (bluepin, 255-val);
    analogWrite (greenpin, 128-val);
    delay (1);
  }
  Serial.println (val, DEC);
}
```