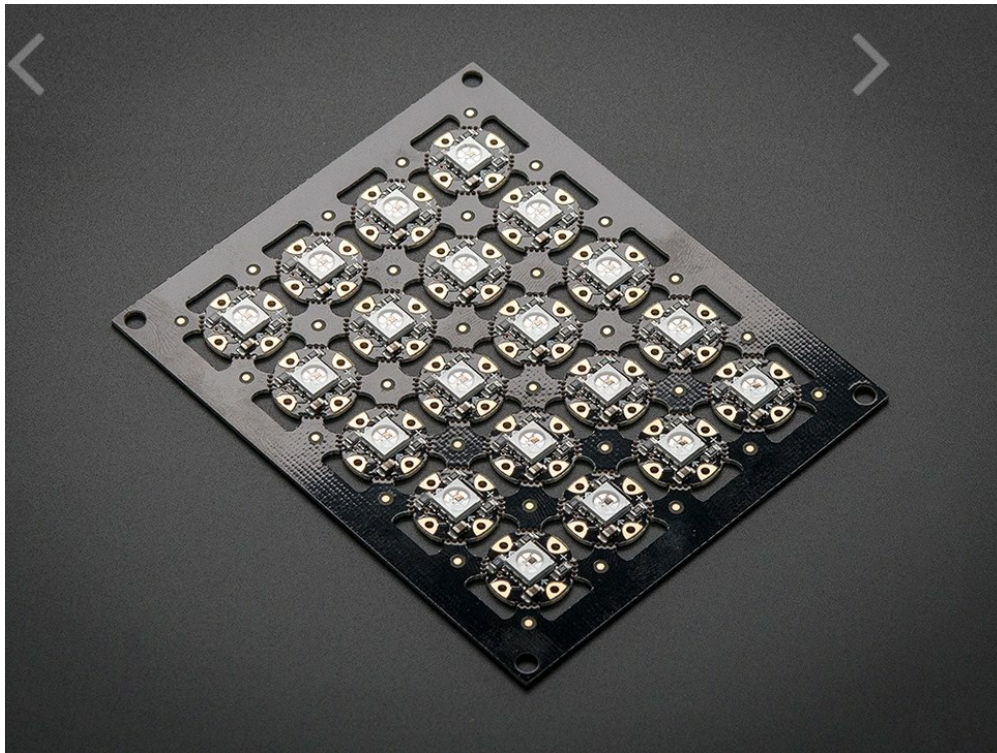


Flora RGB Smart NeoPixel version 2 - Sheet of 20

PRODUCT ID: 1559

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DESCRIPTION

TECHNICAL DETAILS

DESCRIPTION

So, you want lots and lots of NeoPixels? And you want them for less? Not a problem! Here's a sheet of Flora NeoPixels fresh from the (reflow) oven. Cut them off as you need 'em and save a pretty penny while you're at it.

Each order comes with 20 pixels on a sheet. [If you want a smaller number, we also have them in packs of 4.](#) We suggest cutting them out with [diagonal cutters](#) or [heavy-duty scissors](#).

What's a wearable project without LEDs? Our favorite part of the Flora platform is these tiny smart pixels. Designed specifically for wearables, these updated Flora NeoPixels have ultra-cool technology: these ultra-bright LEDs have a constant-current driver cooked right into the LED package! The pixels are chainable - so you only need 1 pin/wire to control as many LEDs as you like. They're easy to sew, and the chainable design means no crossed threads.

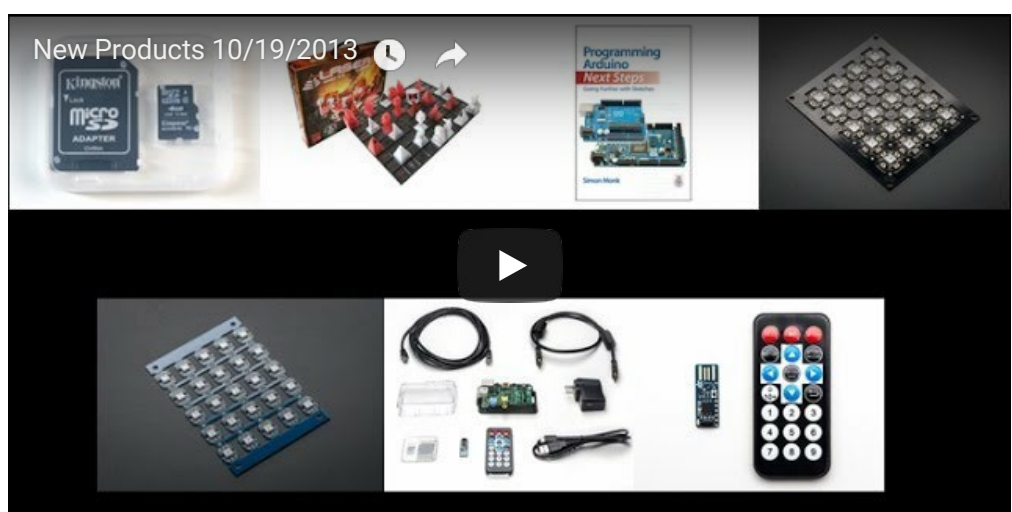
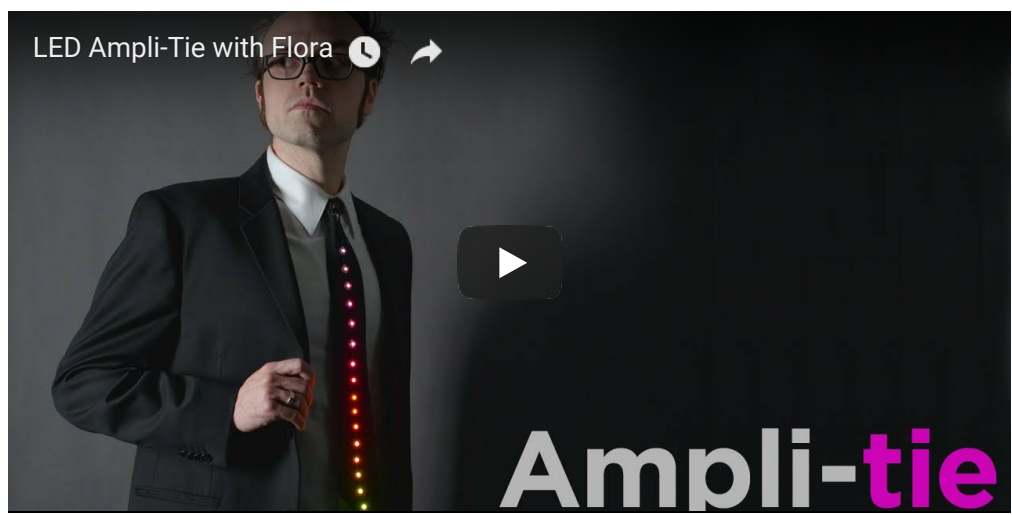
These pixels have full 24-bit color ability with PWM taken care of by the controller chip. Since the LED is so bright, you need less current/power to get the effects you want. The driver is constant current so it's OK if your battery power changes or fluctuates a little.

Each pixel draws as much as 60mA (all three RGB LEDs on for full brightness white). In theory, the Flora can drive up to 500 pixels at 30 FPS (it will run out of RAM after that). However, after about 10 pixels (or if the distance between pixels is more than an inch or two) the resistance of the thread can affect the power supply. For large quantities of pixels over 10, you may want to

Downloaded from [Arrow.com](#) to aid to provide a "power bus" for the pixels - the

current draw will add up fast!

[Check out NeoPixel Uberguide for everything you could ever want to know \(and more\)!](#)



Flora RGB Smart Neo Pixel version 2 - Sheet of 20 ([11:46](#))



TECHNICAL DETAILS

- 0.5" (12.5mm) diameter circle PCB, 0.1" (2.5mm) total thickness
- 800 KHz speed protocol
- Chainable design
- 5-9VDC power (can run at 3.5V but color will be dimmed), constant current 18.5mA per LED (~55mA max total per pixel)
- [EagleCAD PCB files and Fritzing Library available in the NeoPixel tutorial](#)

Head to the [Adafruit Learning System](#) for the following FLORA tutorials:

- [Flora RGB Smart Pixels](#)
- [LED Ampli-Tie](#)

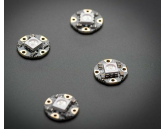


LEARN



[Adafruit NeoPixel Überguide](#)

Everything you always wanted to know about Adafruit NeoPixels but were afraid to ask



[Sewable NeoPixels](#)

Addressable, chainable, delectable!



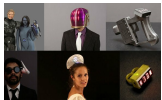
[NeoPixel LED Cortana Costume](#)

Become your favorite video game character with 3d printing and diy electronics



[NeoPixels on Raspberry Pi](#)

How to control NeoPixel LEDs with Python on a Raspberry Pi!



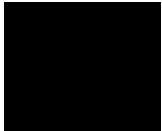
[2014 Halloween 3D Printed Projects Roundup](#)

Print your things for your halloween costumes!



[Unibeam](#)

Shoot powerful LED lights, from your chest!



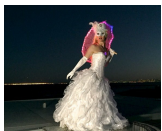
[ReBoots Animated LED Boot Laces](#)

These boots are made for dancing, and that's just what they'll do



[LED Masquerade Masks](#)

Light up the party!



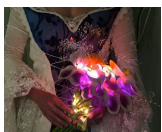
[Twinkling Neopixel Parasol](#)

Subtly Shifting Lights and Lace



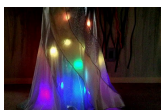
[Rainbow Chakra LED Hoodie](#)

Ground yourself in Burner Style



[Light of Your Life Wedding Bouquet](#)

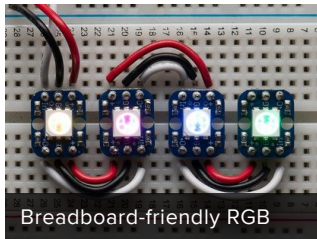
Beautiful flowers that glow more brightly when your love is near



[Sparkle Skirt Playground](#)

Lights, Sound and Motion for Your Ensemble

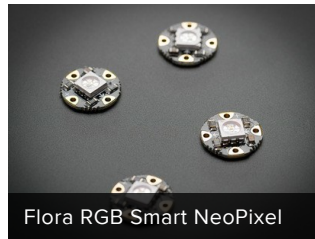
MAY WE ALSO SUGGEST...



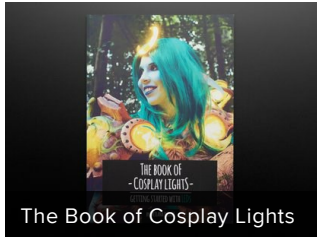
Breadboard-friendly RGB



Breadboard-friendly RGB



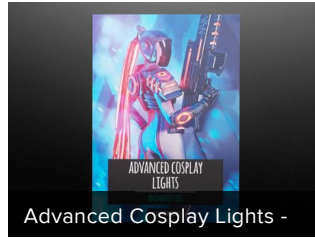
Flora RGB Smart NeoPixel



The Book of Cosplay Lights



NeoPixel Mini PCB - Pack of



Advanced Cosplay Lights -



Make: Wearable Electronics



Cosplay World by Brian

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"The nice thing about standards is that you have so many to choose from; furthermore, if you do not like any of them, you can just wait for next year's model" -
Andrew S. Tanenbaum

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4.9 ★★★★★
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