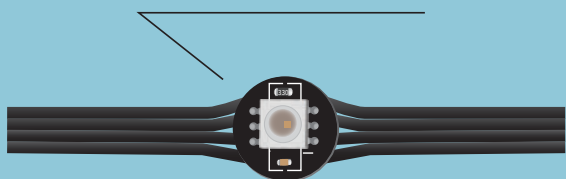


Ø10mm



**I-12V-MOD-5050-B1PD-RGB-GS8208**



**MOSS**  
LED

## RawModule 1-LED RGB

Individually controlled raw PCB RGB pixel dots

This is a highly responsive 8khz PWM frequency RGB pixel product. Each pixel dot can change colour independent of one another. Perfect for replacing indicator lights. 12 Volt, GS8208. Compatible with our LFXFBX & PixlArt416 controllers or theoretically any device that outputs GS8208 pixel protocol.

Pricing is for one dot however our factory pack is 20 per string. Includes JST connector if ordered in multiples of 20. No JST connector included if ordered in any other quantity.

### Pixel Product Installation Notes:

The PWM frequency (dimming frequency) is baked into the pixel and cannot be changed. You must ensure you choose the right pixel for your application. If you are unsure of what camera settings are going to be in use, it is best to go with high frequency pixel tape (8khz or higher / GS8208 or APA102 or UCS7804H)

Avoid voltage drop by positioning a power supply close to the LED strip and/or powering the LED from multiple locations (and/or via multiple power supplies)

The power supply that is providing power to the controller (PixlArt416) does not need to be the same power supply that is powering the LED strip.

During testing ensure that the pixel LED is receiving the required voltage (12 Volts DC) by doing a volt meter test at the contact pads of the LED strip.

### Soldering Guidelines:

Soldering iron should be between 360°C and 372°C. Please ensure not to heat each solder pad for longer than 3 seconds otherwise separation of the solder pads can occur.

### Other Notes:

#### Indoor use only

There is no double-sided adhesive on the backside in case you need to solder onto the back contact pads. However we recommend a non-conductive double-sided adhesive.

Controller, power supply and extension cables are sold separately based on your project

Quantity discounts available  
Please contact us for more information

N/A CRI	12V DC	120° BEAM ANGLE	5 years	Dimmable	30.5cm (12")	CUSTOMIZED LENGTHS
UL LISTED E489028	RoHS	CE	PCB Diameter 10MM	IP43 INDOOR	RGB	

# TECHNICAL SPECIFICATIONS

NO:

## PIXEL - RGB

1	PRODUCT TYPE	Pixel Dots 10MM RGB Raw PCB - Black Wire - Black PCB
2	PRODUCT CODE	I-12V-MOD-5050-B1PD-RGB-GS8208
3	CRI / TLCI	N / A
4	COLOUR TEMP. OR WAVELENGTH	RGB COLOUR CHANGING
5	PCB COLOUR	BLACK
6	CURRENT, RATING	0.02A / PIXEL
7	VOLTAGE	12 VDC
8	WATTAGE	0.2 W / PIXEL
9	CC / CV	CONSTANT CURRENT
10	IP RATING	IP43 (INDOOR USE ONLY)
11	LUMENS/METER@FULL	N/A
12	LUMEN / WATT	N/A
13	LIFETIME*	30,000 HOURS
14	CUTTING LENGTH	Individual LED - 12" / 30.5CM PIXEL PITCH (CUSTOM PITCH AVAILABLE)
15	LEDS/METER QUANTITY	3 LED / METER
16	NUMBER OF CONTACTS	4
17	LED TYPE	GS8208
18	PCB COPPER QUANTITY	3 Oz.
19	OPERATING TEMPERATURE RANGE	-40° TO + 70° C
20	AGENCY RATINGS	UL - E489028, CE, RoHS
21	PCB WIDTH	10MM DIAMETER
22	MAXIMUM RECOMMENDED LENGTH	480 LEDS MAX PER RUN (will use 2.8 universes of data)
23	VIEWING ANGLE	120°
24	ADHESION	N/A
25	WAVELENGTH A	620 ~ 630nm
26	WAVELENGTH B	515 ~ 530nm
27	WAVELENGTH C	460 ~ 470nm
28	WAVELENGTH D	N / A
29	DATA TRANSMISSION SPEED	800 kHz
30	REFRESH RATE	30 FPS
31	OPERATING FREQUENCY	8 kHz

\* - NOMINAL LIFETIME BASED ON IDEAL INSTALLATION LOCATION CONDITIONS & ASSUMING MAXIMUM OF 16 HOURS PER DAY OF USE