DMX 5V RGB LED Strip

DMX-5RGB-34XX

Customer Name	Project Name	Part Number

Description

SIRS-E® DMX RGB LED strip lights let you create millions of colors by just mixing red, green, and blue colors. With the ability to control each individual pixel and channel, the color mix and color effects possibilities are endless. Compliant with all safety requirements as defined by UL standards.

Product Specifications

Input Voltage	5V DC	Cut/Readdress	Cuttable and Readdressable at every pixel[1]
Control Method	DMX 512 Control - Pixel by Pixel	Reel Length	16.4 ft / 5 m
Power Consumption	2.00 W/ft	Max Run Length	16.4 ft / 5 m, powered from both sides
LED Chip Type	High Quality SMD 3-Diode RGB	Segment Width	0.56 in (14.3 mm)
LED Density	10 LEDs/ft / 34 LEDs/m	Luminous Flux Maintenance	75,000 hrs[2]
Channels/Pixels	3 Channels per Pixel (510 Channels Total)[4]	Dimming	DMX512 Control - Pixel by Pixel
Board Type/Color	3 oz Density Copper, Black PCB	Environmental	IP 67/68 - Dry and Damp Locations
Operating Temperature	-20°F to 120°F	Warranty	5 Years Limited
Mounting	Non-Porous: 3M Adhesive Tape	Certifications	RoHS c UL us UL Listed E479339

Product Photometrics - Red, Green and Blue Diodes[3]

Color Diode	Peak Wavelength (nm)	Dominant Wavelength (nm)	CIE (x,y)	Luminous Flux (lm/ft)	Luminous Efficacy (lm/W)
Red	632	622	(0.6929, 0.3054)	24	16.31
Green	516	519	(0.1360, 0.7072)	54	36.8
Blue	463	468	(0.1362, 0.0564)	13	9.1

Product Photometrics - All Three Colors at Full Intensity[3]

Nominal CCT (K)	Luminous Flux (lm/ft)	Luminous Efficacy (lm/W)	CIE (x,y)	Duv	CRI	TM-30-15 Fidelity (Rf)	TM-30-15 Gamut (Rg)
22000 K	87	22.9	(0.2396, 0.2344)	+0.0004	35.0	48	104

1 - The DMX RGB LED strips are cuttable every pixel. You need to cut at 1.15in (29.29mm), represented where the solder joints are.
2 - After 75,000 hrs: 30% Luminous Flux loss, 10% Chromaticity change, as per LM-80-15
3 - Photometric values obtained from NVLAP Test Reports.
4 - The DMX RGB LED strips are configured by default on channel 1. If you want to change the starting address, you will need a DMX Address Whitter (DMX-STRP-PROG2), available on our website.

DATASHEET

3307 West Street Rosenberg, TX 77471, USA - (281) 324-0908

DMX 5V RGB LED Strip

DMX-5RGB-34XX

Ordering Guide

	Voltage	Color		Density	IP
DMX	5	RGB	–	34	67
DMX	5	RGB	–	34	68*

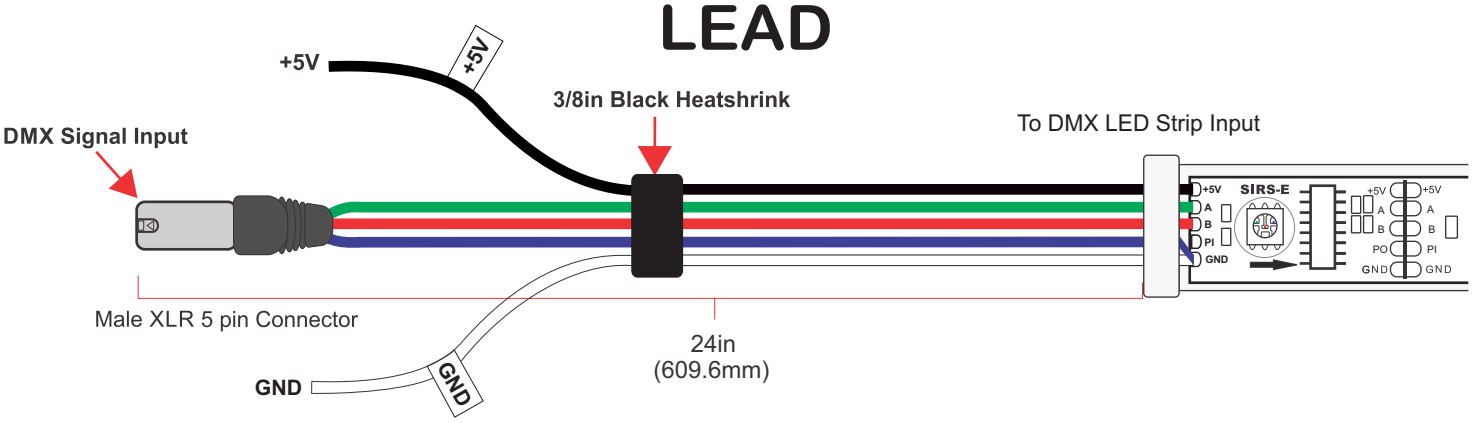
*IP 68 Version consists of the same Physical Dimensions as IP67

Product Country of Origin

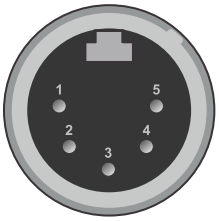
Product Engineering & Design	USA
Assembled	China Preassembled / USA Final Assembly
QC Quality Control	USA
Product Customization	USA
Technical Support	USA

Wiring Diagram

LEAD



Color Code Male XLR 5 pin



(Front View)
XLR Male Cable

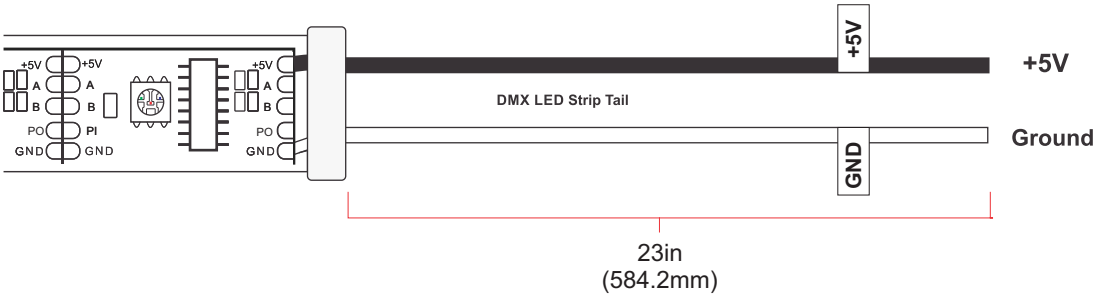
Color Code XLR

Pin 1 - V- / Ground
Pin 2 - B / DMX-
Pin 3 - A / DMX+
Pin 4 - NC
Pin 5 - NC

Color Code LED Strip

+5V
A
B
Ground
Ground

TAIL



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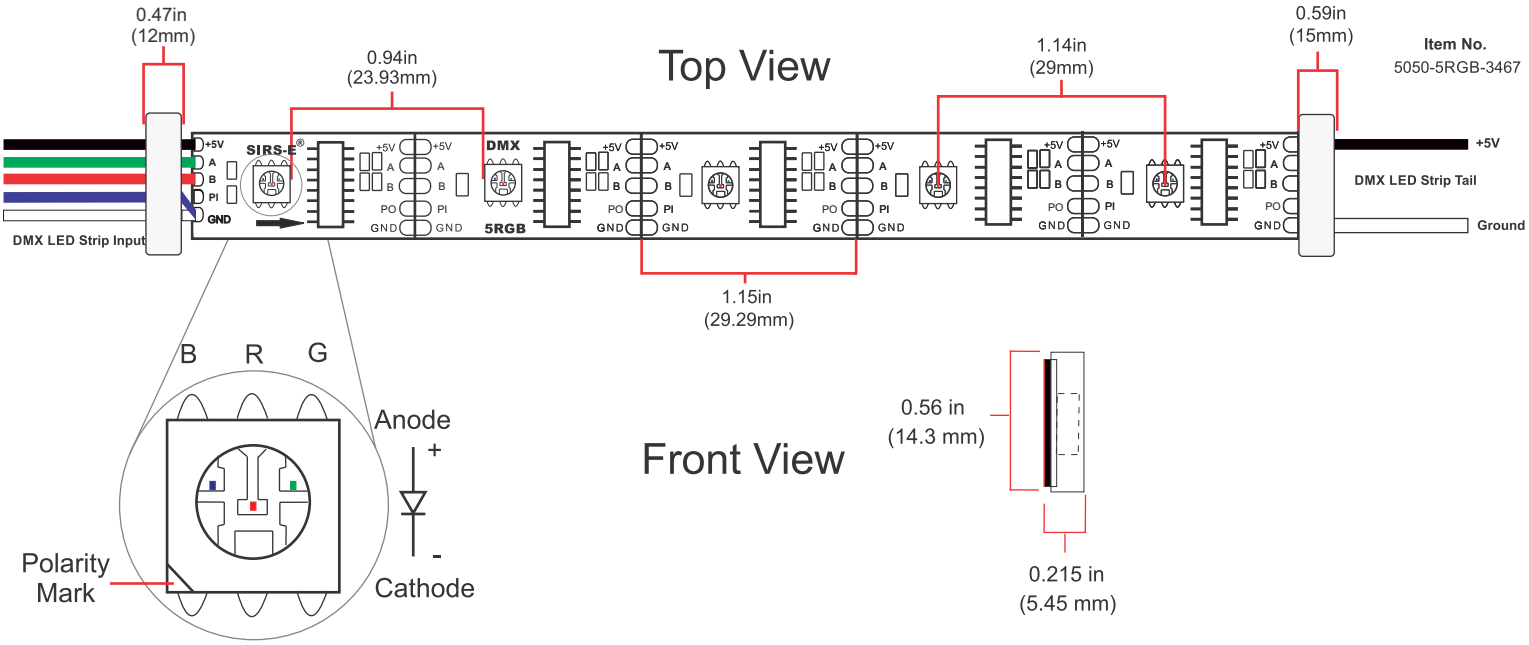
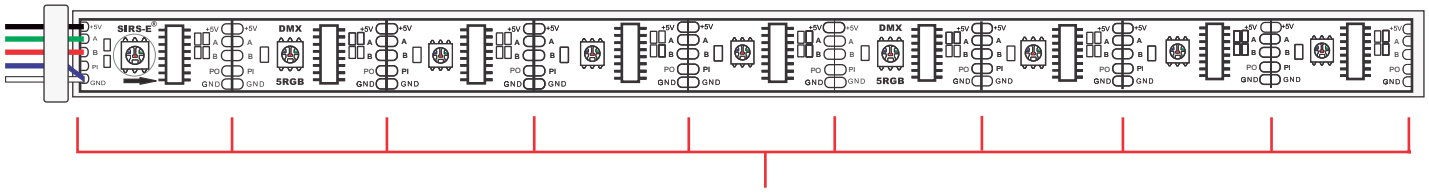
Mechanical Dimensions



Cutting & Re-Addressing Instructions



Field cuttable in any pixel
Continues last sequential DMX address used

Important:

- The RGB DMX strips are cuttable in any pixel, and it will continue with the sequential DMX address that was last used.
- If you want to change the starting address back to 001, you will need a **DMX Address Writter** (PN# DMX-STRIP-PROG2), available on our website.

Weight

Product Weight: 13.4 oz, 16.4 ft Reel (IP67), Without Packaging

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Compatible Accessories

This list shows some of our most sellable accessories compatible for this product. For a complete list, please visit our website.

SIRS-E®
ArtNet to DMX Interface
Pro 6 Universes
(AD-PRO-6)

MADRIX USB One
DMX512 Interface
& Software License
(Sold Separately)

Meanwell 5V PSU
(LED-PS05V-30W-UL)

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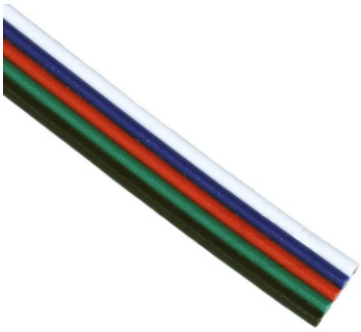
MADRIX Luna
ArtNet Interface

Baxter Controls DMX
Basic Pocket Console
(As a Testing Tool)

DMX Address Writter
(DMX-STRIP-PROG2)

Neutrik
5 PIN Male Connector
(NC5MXX)



SIRS-E RGBW
Wire Leads

c UL us

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Notes

- A good technique to minimize brightness loss and increase lumen output on CV LED Strips is to power the strip on both sides.
- LED electrical and photometric characteristics change with the manufacturing batch/bin date. Approximately 3-Step MacAdam Ellipses between batches.
- We reserve the right to change any data without prior notice.

About Us

LED LIGHTING AND DMX CONTROL

SIRS-E /**s**emiconductor • **i**llumination • **r**esearch • **s**olutions /
In 2004, SIRS-E began research into the use of high powered LED components to be applied in direct lighting fixtures and LED strips.

In 2005, SIRS-E developed the RGB HPL01 – 12 watt (60 lumens per watt efficiency) RGB lighting fixture controlled via DMX using LumiLEDS, one of the first high powered LEDs eventually acquired by Phillips.
Included in early research solutions, was the development and testing of many different LE strips intended to be used for direct RGB lighting and effects applications.
This was the beginning of what we now know as SIRS – Electronics.

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