

Datasheet

LED Strip Specification

LED strip type:

LS12RGB96WS2812BVP

Description:

**WS2812B (GS8208) 12V Digital RGB Protected High Power
(12 Volt, 96 LEDs, 5050, IP64)**



Date:
11-7-2015

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Parameters:

Basic Parameters	
LED Type	5050 SMD
Color	RGB
Viewing Angle (θ)	120 \pm 5°
LED Qty	96 LEDs / mtr
LEDs per pixel	1
Numbers of channels	3
IC type	WS2812 (GS8208)
IP grade	IP64 Silicone
Dimensions	1000 * 12 * 4mm
Weight	35g ~ 40g / meter
Lifespan	70,000hours
LB Value	L80B50
Warranty	2 Years

Environment Parameters	
Working Temperature	-25°C ~ +70°C
Storage Temperature	-20°C ~ +60°C

Electronic Specifications	
Working Voltage	DC 12V
Working Current	1.6 A / mtr
Working Wattage	19.2 W / mtr
Driving Method	Constant Voltage

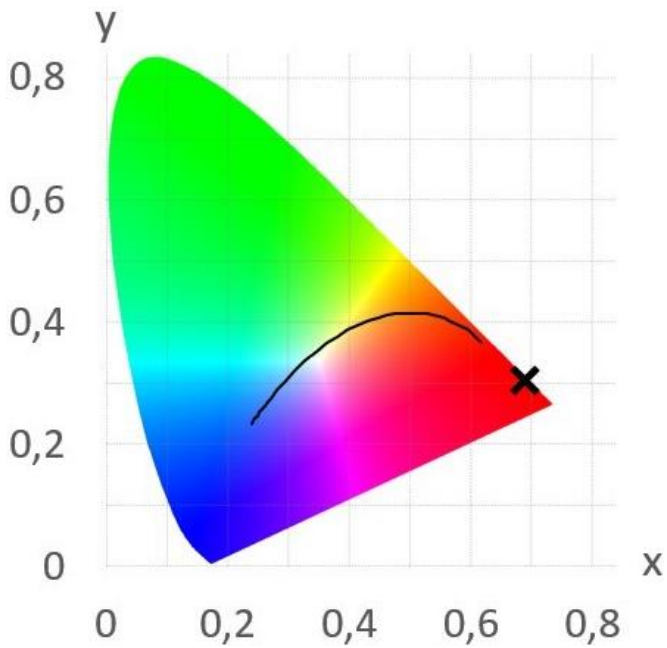
Wires & connection length	
Wires	UL1007 20# 150mm
Length per segment	10,416mm
LEDs / segment	1
Standard length on a reel	10m

Luminous Flux (Lumen/Meter)	
Red	200 Lumen
Green	290 Lumen
Blue	185 Lumen

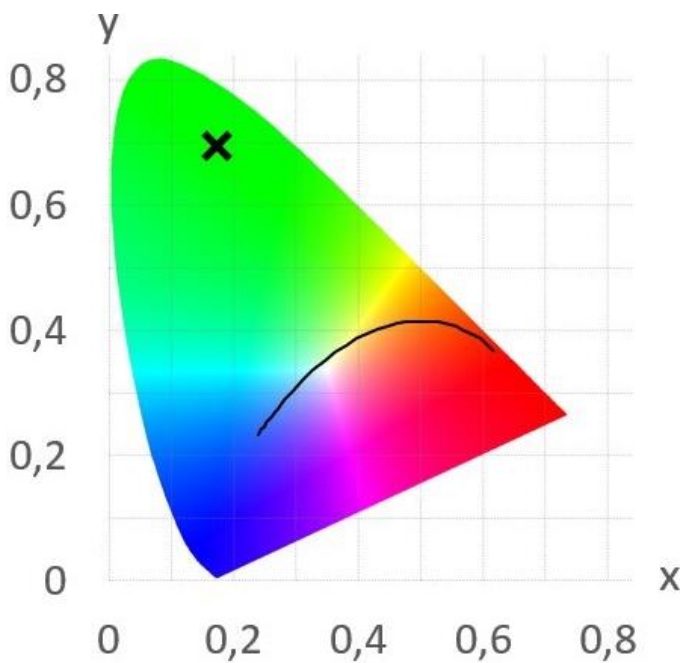
Wave Length/ Color Temperature	(nm/k)
Red	620~630 nm
Green	510~525 nm
Blue	455~470 nm

Wire color	Symbol	Function description
White	GND	Ground
Green	D1	Data 1
Blue	D2	Data 2
Red	+12V	12V logic power supply

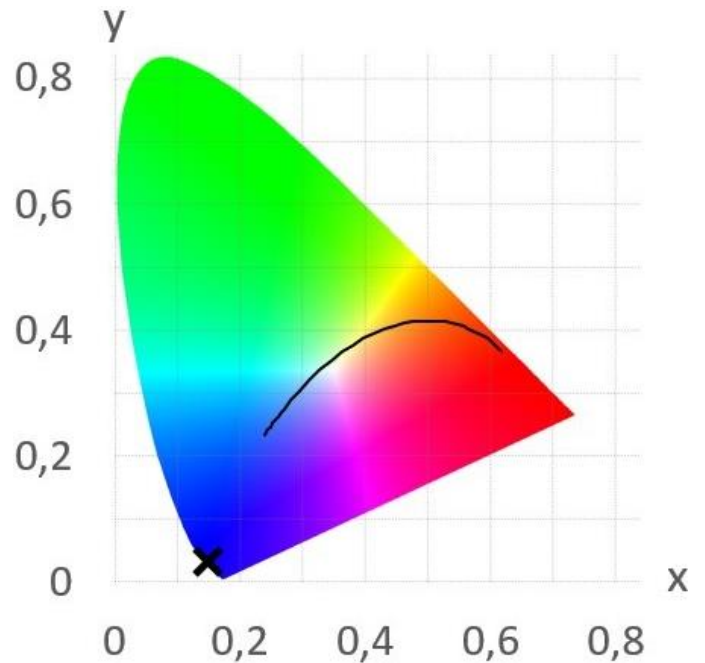
CIE1931 RED:



CIE1931 Green:

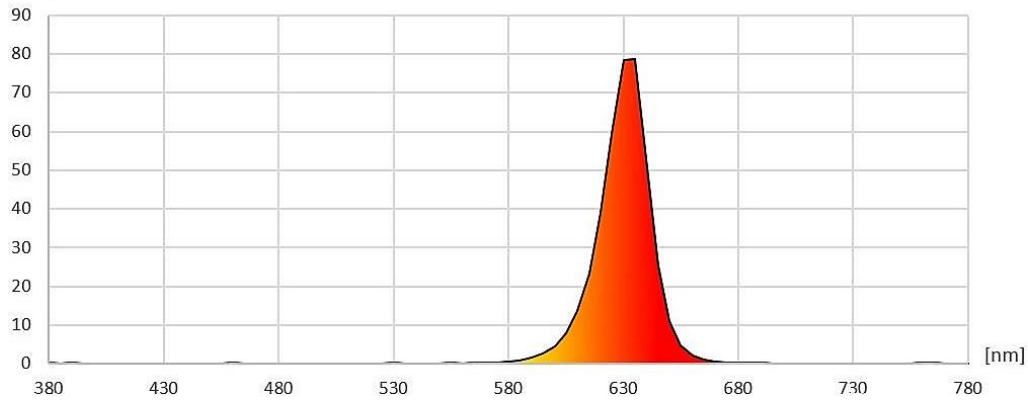


CIE1931 Blue:



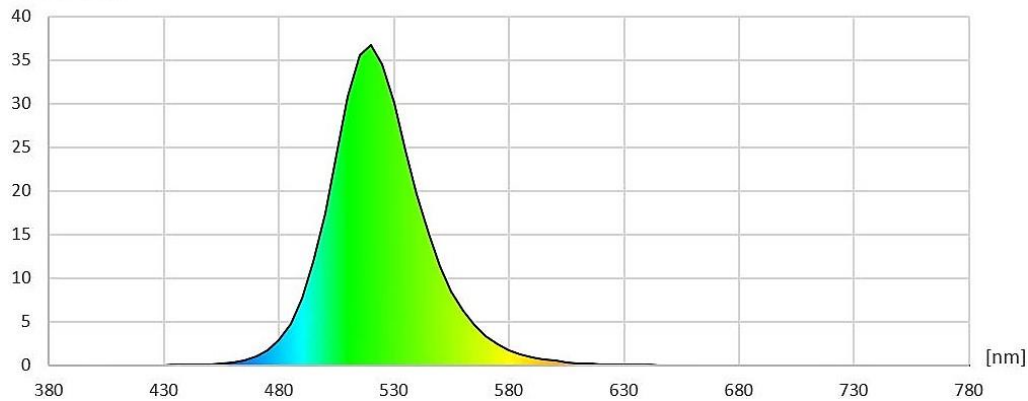
Wave Length Red:

mW/m²/nm



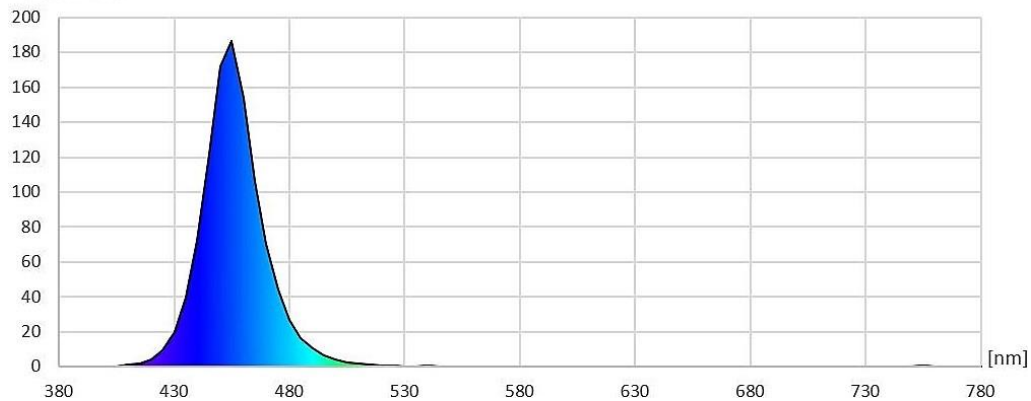
Wave Length Green:

mW/m²/nm



Wave Length Blue:

mW/m²/nm



The Materials of PCB:

Epoxy PCB with white finishing.
Conducting Tracks: Cu, 35um thickness, double sided.

Solderings:
Solder Alloy: 99.3 Sn, 0.7 Cu,
Melting Temperature: 227°C
No SVHC (17-Dec-2014)

Certificate of Conformity:

EC Council Directive 2004/108/EC
Electromagnetic Compatibility

Complies to the Standards:

- EN 55015: 2006 + A1: 2007 + A2: 2009
- EN 61000-3-2: 2006 + A1: 2009 + A2: 2009
- EN 61000-3-3: 2008
- EN 61547: 2009

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