

Datasheet

LED Strip Specification

LED strip type:

LS5RGB144WS2812BW

Description:

**WS2812B (SK6812) Digital SPI RGB Waterproof High Power
(5 Volt, 144 LEDs, 5050, IP68)**



Date:
11-7-2015

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Parameters:

Basic Parameters	
LED Type	5050 SMD
Color	RGB
Viewing Angle (θ)	120 ±5°
LED Qty	144 LEDs / mtr
LEDs per pixel	1
Numbers of channels	3
IC type	WS2812B (SK6812)
IP grade	IP68 Silicone
Dimensions	1000 * 12 * 5 mm
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

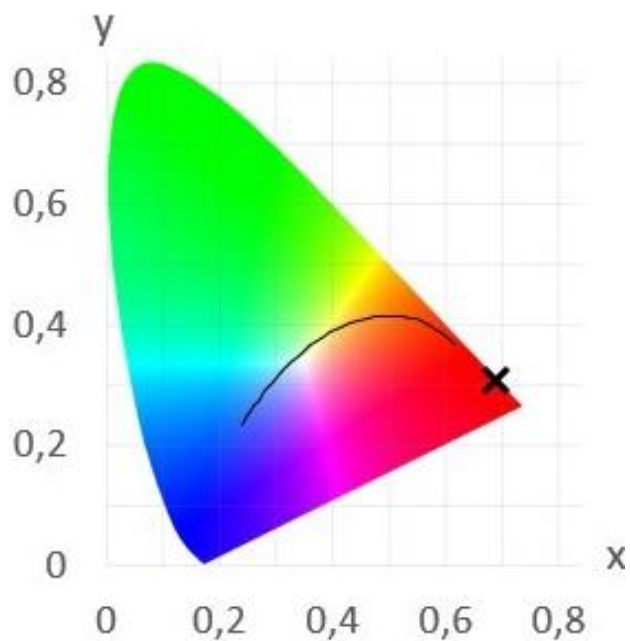
Electronic Specifications	
Working Voltage	DC 5V
Working Current	8.64 A / mtr
Working Wattage	43.2 W / mtr
Driving Method	Constant Voltage

Wires & connection length	
Wires	UL1007 20# 150mm
Length per segment	25 mm
LEDs / segment	3
Standard length on a reel	1m

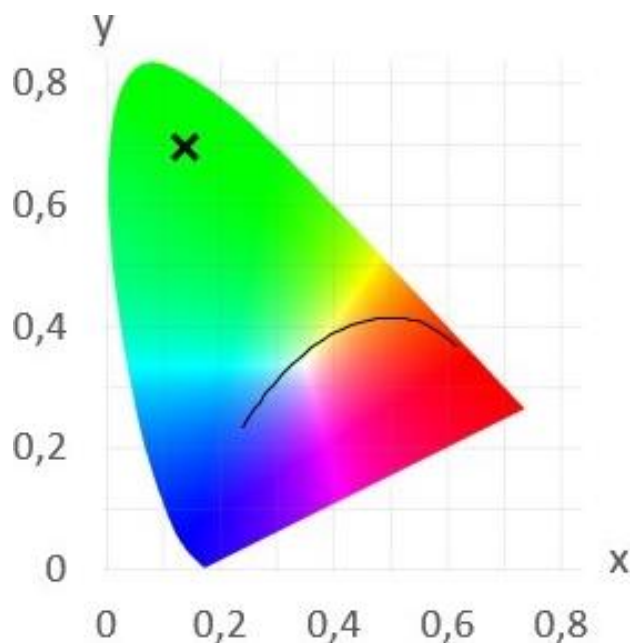
Luminous Flux (Lumen/Meter)	
Red	80 Lumen
Green	116 Lumen
Blue	71 Lumen

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

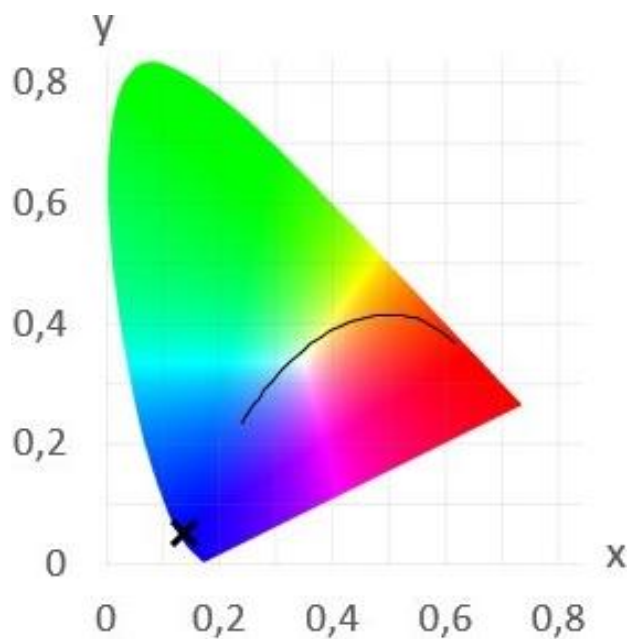
CIE1931 RED:



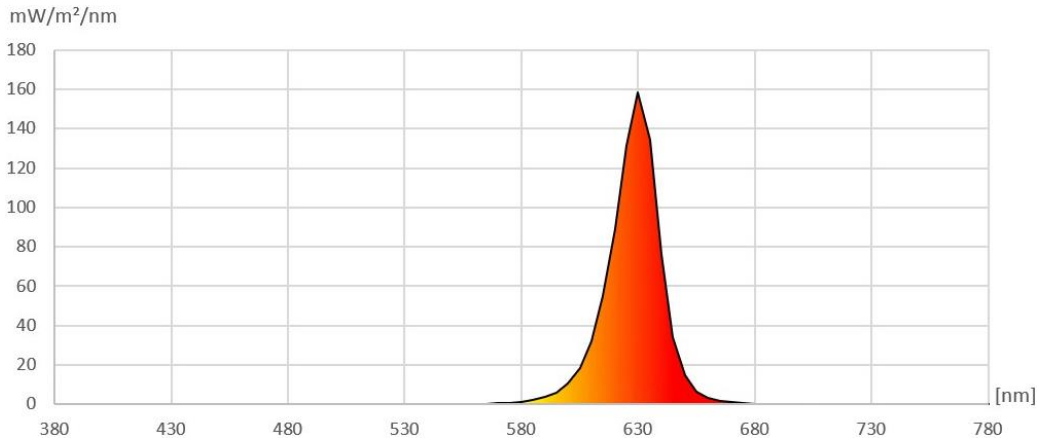
CIE1931 Green:



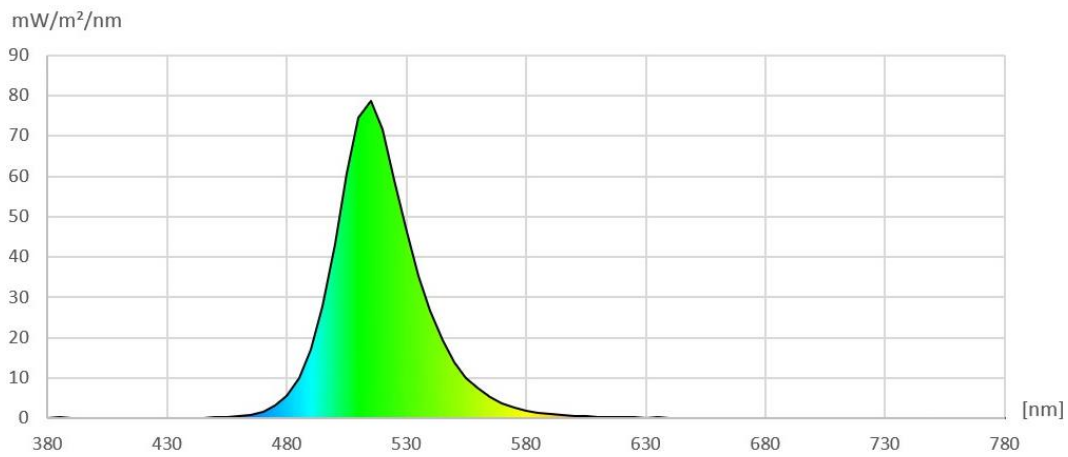
CIE1931 Blue:



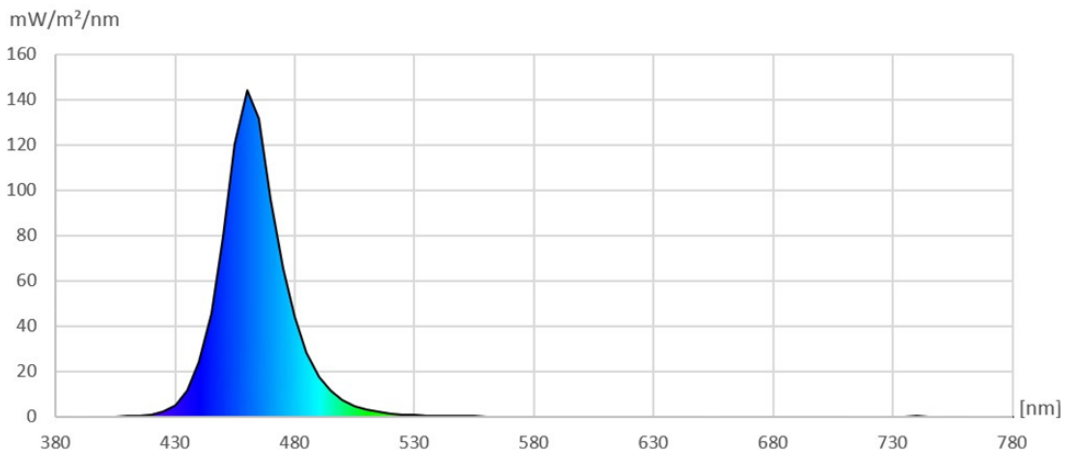
Wave Length Red:



Wave Length Green:



Wave Length Blue:



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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