

P10 Single Color Datasheet

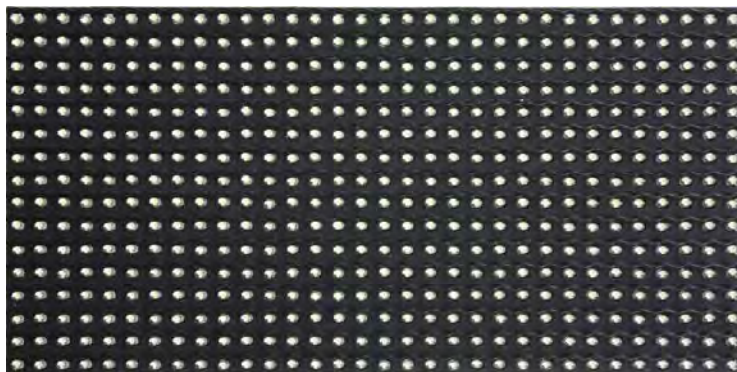
Model: SBL-SODP10W

Dimension: 320mm x 160mm

Weight: 400g

Description:

The P10 single color is a high brightness, lower power consumption, long life time display module. Designed for semi-outdoor use environment.



Features:

- 1/4 duty scan drive
- Brightness: 3500nits to 4500nits
- Max Power Consumption: 23W
- DC 5V Voltage Input
- Constant Voltage Drive
- IP65 Waterproof
- 1W Pixel Configuration
- High Viewing Angle
- High Contrast Ratio with a perfect louver/cover

Absolute Maximum Ratings (Ta=25degree C, unless otherwise specified):

Parameter	Symbol	Value	Unit
Power Input	V _{in}	7	V
Power Dissipation	P _D	23	W
Driving Current	I	25	mA
Operation Temperature	T _{opr}	-20 to 50	Degree C
Storage Temperature	T _{sto}	-40 to 60	Degree C
Operation Humidity	H _{opr}	10% to 90%	RH
Storage Humidity	H _{sto}	<60%	RH
Minimum OE	MOE	200	ns

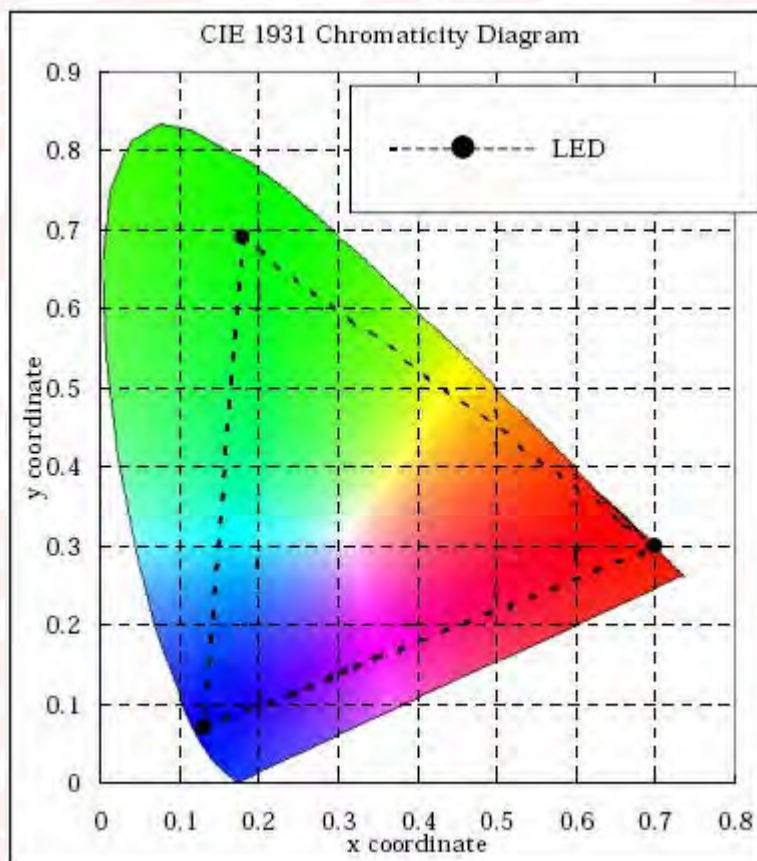
Optical Electronic Characteristics (Ta=25degree C, unless otherwise specified):

Parameter	Symbol	Test Condition	Value	Unit
Brightness	Lv	20mA	3500	nits
White Balance*	W/B	25mA	3800	nits
Red Dominant Wavelength	R Wd	I =20mA	623	nm
Gray Level	Gray level	Test by Xixun	8	Bits
Life Time@ 50% Brightness Light up	LT-50%	I=20mA	100000	Hour

Notes: Above test with EPI-star LEDs, the driving current is for reference only.

Color Reproduction:

The triangle in the figure shows the color reproduction of P10 outdoor single color product.



Model	SBL-SODP10W
Pixel Pitch	10 mm
Pixel Density	10000 (dots/m ²)
Pixel Configuration	1W
LED Type	DIP 546
Module Dimension	320*160 mm
Module Resolution	32*16 (dots)
Minimum Viewing Distance	10 m
Brightness	>3500 nits
Viewing Angle-Horizontal	120° (+60/ -60)
Viewing Angle-Vertical	60° (+30/ -30)
Scan Mode	1/4 duty scan drive
Input Power	300-80 (W/m ²)
Cabinet Dimension	1280*960 (mm)
Cabinet weight	58 kgs
Brightness Control	8 levels
Digital Processing	8 bit
Frame Rate	60 Hertz
Display Refresh Rate	=120 hertz
Input Voltage	110 V -240 V (AC)
Input Power Frequency	50 – 60 (hertz)
MTBF	>10000 hours
Lifespan (50% brightness)	>100000 hours
Module Brightness Uniformity	<5 %
Blind Spot Rate	<0.0001
Earth Leakage Current (mA)	<2
Panel input Format (with video processor)	VGA, DVI, RGBHV, HDTV, Composite, S-Video, TV
Data Connection	Super CAT6 Cable or Fiber
Operating System	Windows(98/2000/XP/win 7)
Control Distance	CAT6 cable:180m; Single Mode Fiber: Up to 15 km