

Data Sheet

P10 Single Color LED Display

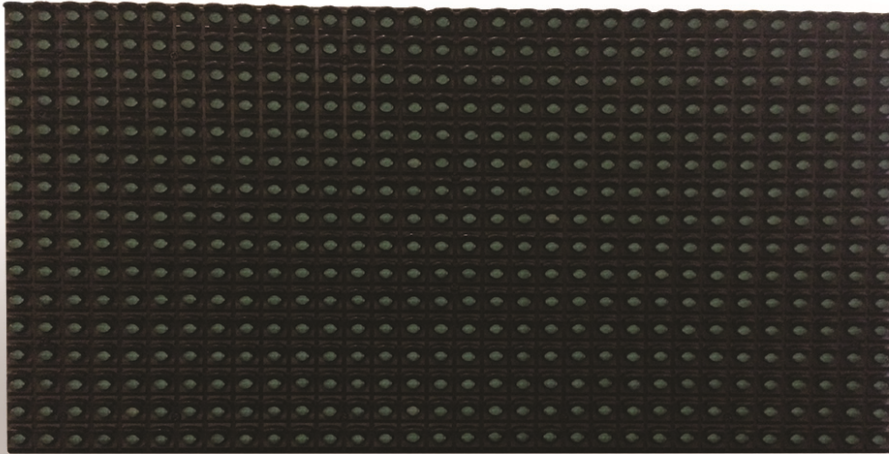


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General Information:

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

Features:

- 1/4 duty scan drive
- Brightness:3500nits to 4500nits
- Max Power Consumption: 20W
- DC 5V Voltage Input
- Constant Voltage Drive
- IP65 Waterproof
- 1W Pixel Configuration
- High Viewing Angle
- High Contrast Ratio with a perfect louver/cover

Electrical and Software Characteristics

Table 1: Screen Characteristics

Code	Color	PixelPitch	Density	Brightness	LED Pixel Size	Drive Mode	Size(mm)
2120	Red	10mm	36x16	2500mcd	512	¼ Scan	32x16
2121	Yellow	10mm	36x16	5000mcd	512	¼ Scan	32x16
2122	Blue	10mm	36x16	2500mcd	512	¼ Scan	32x16
2123	Green	10mm	36x16	9000mcd	512	¼ Scan	32x16
2124	White	10mm	36x16	8500mcd	512	¼ Scan	32x16

Table 2: Electrical Characteristics

Code	Color	Current (max)	Voltage (max)	Average Power	Power (max)
2120	Red	4A	5V	8W-10W	20W
2121	Yellow	4A	5V	8W-10W	20W
2122	Blue	4A	5V	8W-10W	20W
2123	Green	4A	5V	8W-10W	20W
2124	White	4A	5V	8W-10W	20W

Important Notes:

- LEDs and parts, are very weak against external impact. LEDs and Parts may be damaged due to contact of tools or your casing of the products to the products. When handling the products, please pay special attention.
- The products are not designed to tolerate against solvent. Please pay special attention not to attach any organic solvent such as thinner, to the products.
- The products apply high density LSIs that are very weak to static electricity. while handling the products, please wearing an earth band to make human body electrification lower than 100V. Especially, cloths made by chemical fiber are likely to be electrified several thousand voltages of static electricity and it may destroy the circuits.
- Please wear clean gloves when handling the products as sweat or sebum attached with hands may corrode the products and it may be cause the breakdown.
- Once products are exposed to UV rays for long time, the colors of LED and PCB/Housing may change the color.
- Please do not to touch the edges with module or metals as a part of circuit patterns may be exposed around the PCBs.
- In case looking the products through sunglasses or finder of camera, the color would be different as you sense by looking by eyes, and an accurate evaluation may be difficult to be made.

Activity Conditions :

- The shapes of dots covering over LED dies are different from each other somehow, therefore, while condition of non-lighting may see some pattern
- The aging characteristics of LED may given luminous intensity differ between frequent and infrequent lighting areas. Difference will be more obvious at fixed emitting area.
- The brightness of LED become dimming once unit's temperature increases. Please note that the brightness may vary depending on the lighting rate and lighting time per product

Technical Drawing:

