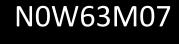




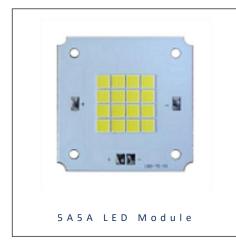
PRODUCT DATASHEET



- ▶ 50x50x2.7mm
- ► Cool White 6500K







APPLICATIONS:

- High Bay Light •
- Street Lighting
- **Commercial Lighting** •
- **Tunnel Light** •
- Spotlight •

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5A5A LED Module Compliant

FEATURES:

- Package: Top View EMC White LED Array on MCPCB
- Forward Current: 4000mA
- Forward Voltage (typ.): 26.4V
- Luminous Flux (typ.): 12250lm@4000mA •
- Colour: Cool White .
- . Colour Temperature (CCT): 6500K
- Viewing angle: 120° •
 - Materials:

•

- Die: InGaN _
- _ Resin: Silicon (Yellow Diffused)
- _ Package: EMC
- Operating Temperature: -40~+105°C
- Storage Temperature: -40~+105°C
- **Grouping parameters:**
 - **Forward Voltage**
 - Luminous Flux _
 - **CIE Chromaticity** _
- Soldering methods: Reflow Soldering
- MSL Level: 2 according to J-STD020
- Packing: 6pcs/tray; in carton



CHARACTERISTICS:

Absolute Maximum Characteristics (Ta=25°C)

Parameter	Symbol	Ratings	Unit
DC Forward Current	lF	4000	mA
Pulse Forward Current (Duty 1/10, width≤100µS)	IPF	4800	mA
Power Dissipation	PD	102,400	mW
Junction Temperature	Tj	120	°C
Operating Temperature	Topr	-40~+105	°C
Storage Temperature	Т _{ѕтб}	-40~+105	°C

Electrical & Optical Characteristics (Ta=25°C, RH=60%)

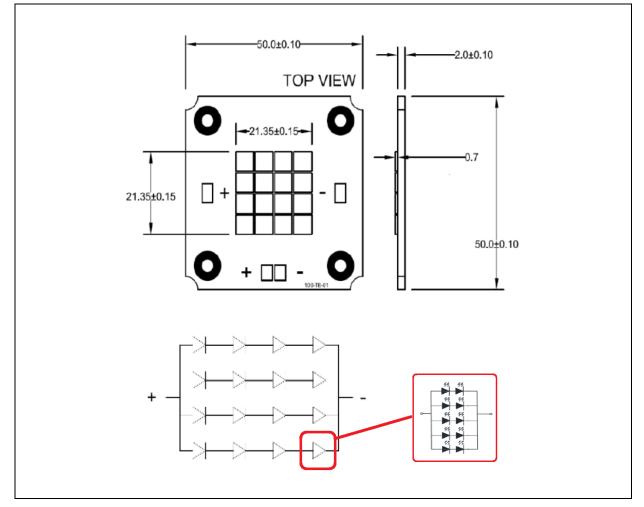
Parameter	Symbol	Values			Unit	Test	
Parameter	Symbol	Min.	Тур.	Max.	Onit	Condition	
Forward Voltage	VF	23.0	26.4	29.6	V	I⊧=4000mA	
Luminous Flux	Φv	11515	12250		lm	I _F =4000mA	
Chromaticity Coordinates	х		0.3130			I⊧=4000mA	
	Y		0.3290				
Colour Temperature	ССТ	6020	6530	7040	К	I _F =4000mA	
Viewing Angle	2 θ 1/2		120		deg	I _F =4000mA	

1. Luminous flux (Φ_{V}) ±10%, Forward Voltage (V_F) ±0.1V, CRI ±2



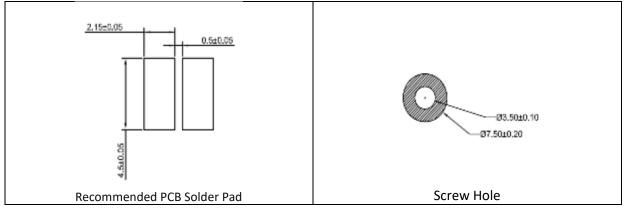
OUTLINE DIMENSION:

Package Dimension:



- 1. All dimensions are in millimetre (mm).
- 2. Tolerance ±0.2mm, unless otherwise noted.

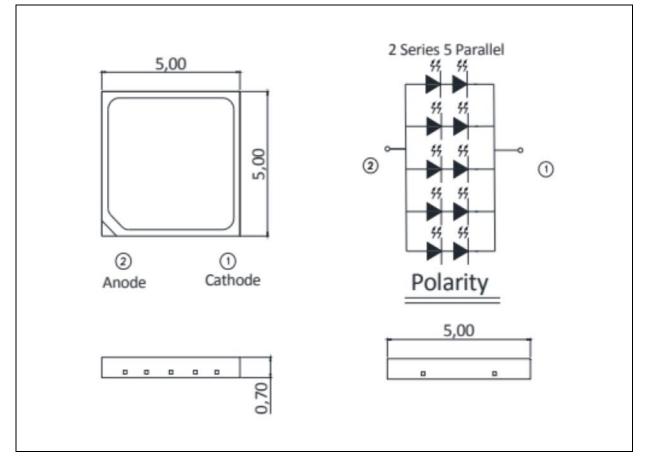
Recommended Soldering Pad Dimension:



- 1. Dimensions are in millimetre (mm).
- 2. Tolerance ± 0.1 mm with angle tolerance $\pm 0.5^{\circ}$.

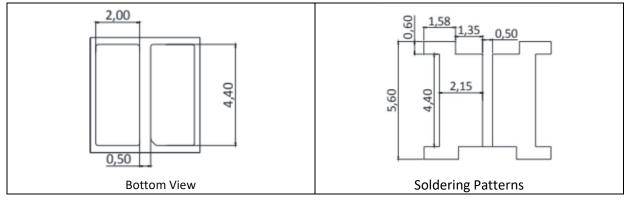


Single LED Dimension:



- 1. All dimensions are in millimetre (mm).
- 2. Tolerance ±0.2mm, unless otherwise noted.

Recommended Soldering Pad Dimension:

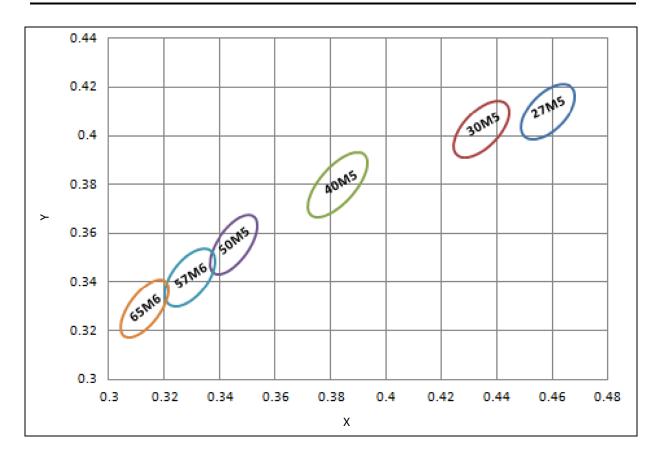


- 1. Dimensions are in millimetre (mm).
- 2. Tolerance ± 0.1 mm with angle tolerance $\pm 0.5^{\circ}$.

4



CIE CHROMATICITY DIAGRAM:



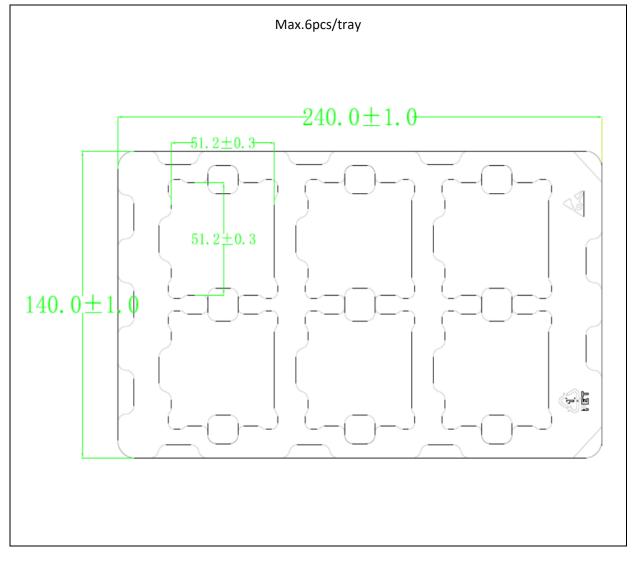
Chromaticity Coordinates Classifications (I_F = 4000mA):

\sim	Cada	Centre		Radius		Angle
a	Code	Х	Y	а	b	Φ
	65M3	0.3130	0.3290	0.006690	0.002850	58.34
	65M5	0.3130	0.3290	0.01115	0.00475	58.34



PACKING SPECIFICATION:

Tray Dimension:



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PRECAUTIONS OF USE:



Storage:

It is recommended to store the products in the following conditions:

- Humidity: 60% R.H. Max.
- Temperature: 5°C~30°C (41°F ~86°F).

Shelf life in sealed bag: 12 months at 5°C~30°C and <60% R.H.

Once the package is opened, the products should be used within a week. Otherwise, they should be kept in a damp-proof box with descanting agent <10% R.H. and apply baking before use.

Baking:

It is recommended to bake the LED before soldering if the pack has been unsealed for longer than 24hrs. The suggested baking conditions are as followings:

• 60±3°C x 24hrs and <5%RH, taped / reel package.

It's normal to see slight color fading of carrier (light yellow) after baking in process.

Testing Circuit:



Must apply resistor(s) for protection (over current proof).

Cleaning:

Use alcohol-based cleaning solvents such as isopropyl alcohol to clean the LED carrier / package. Avoid putting any stress force directly on to the LED lens.

ESD (Electrostatic Discharge):

Static Electricity or power surge will damage the LED. Use of a conductive wrist band or anti-electrosatic glove is recommended when handing the LED all time. All devices, equipment, machinery, work tables, and storage racks must be properly grounded.

In the events of manual working in process, make sure the devices are well protected from ESD at any time.



REVISION RECORD:

Version	Date	Summary of Revision
A1.0	25/11/2022	Datasheet set-up.