



Data Sheet

Customer:	
Part No:	CL-SFC506DWW-4K-90CRI
Sample No:	
Description:	5050 Natural White SMD
Item No:	

Customer				
Check	Inspection	Approval	Date	





Features:

- . Reflow Solderable
- . High Luminous Intensity and Low Power Dissipation
- . Good Reliability and Long Life
- . Complied With RoHS Directive

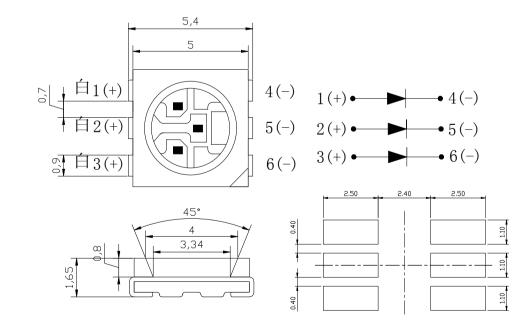
Technical Data Sheet

This product is generally used as indicator and luminary for electronic equipment such as household appliance, communication equipment, and dashboard.

Applications

- Optical indicator
- Indoor display
- Backlighting in dashboard and switch
- Flat backlighting for LCD, symbol and display
- General use





Notes:

- 1. All dimension units are millimeters.
- 2. All dimension tolerance is ±0.2mm unless otherwise noted.





Selection Guide

Part No.	Dice	Lens Type	Luminous Flux(Lm)60mA			Viewing Angle
			Min	Тур	Max	201/2
CL-SFC506DWW-4K-90CRI	Blue (InGaN)	Yellow Diffused	24	26	28	120

Note:

1.1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

2.the above luminous intensity measurement allowance tolerance $\pm 10\%$

2.30LM above Products lumens allow differences:±1LM

Electrical / Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Тур.	Max	Units	test conditions
Forward Voltage	VF	2.8		3.4	V	IF=60mA
Reverse Current	IR			10	uA	VR = 5V
Color Rndering Index	CRI	90			/	IF=60mA
Color Temperature	Тс	3800		4300	K	IF=60mA

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Rating	Units
Power Dissipation	Pd	200	mW
DC Forward Current	IF	60	mA
Peak Forward Current [1]	IFP	120	mA
Reverse Voltage	VR	5	V
Electrostatic Discharge (HBM)	ESD	2000	V
Operating Temperature	Topr	-40~+85	°C
Storage Temperature	Tstg	-40~+100	°C

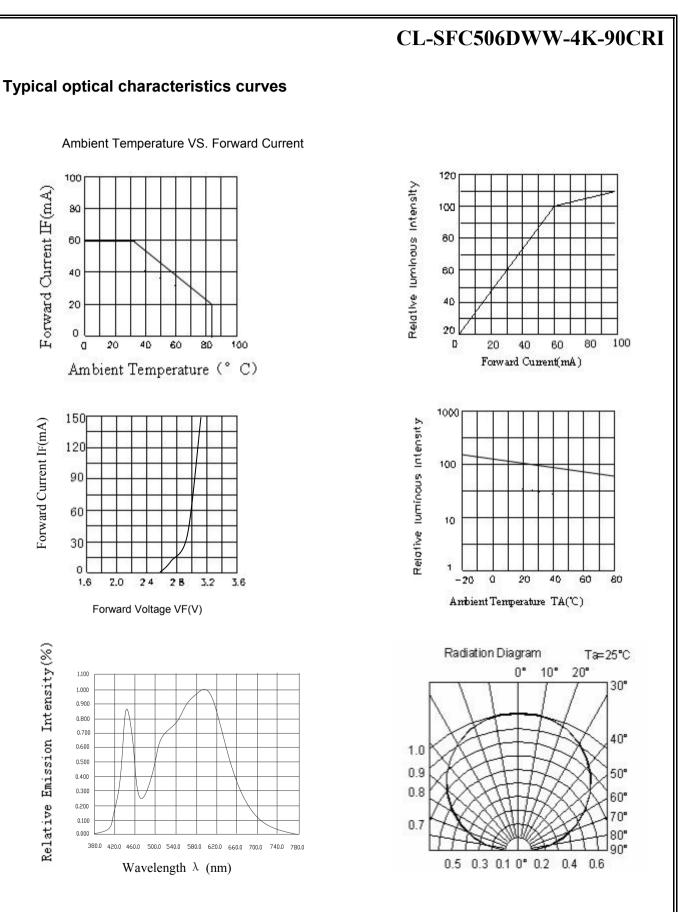
Note:

1. 1/10 Dut cycle,0.1ms pulse width.

2. The above forward voltage measurement allowance tolerance $\pm 0.1 V$.

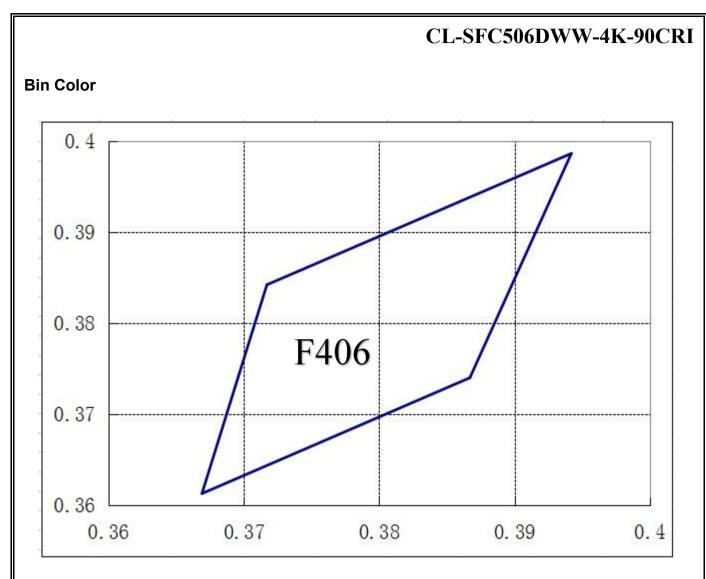












	F40	6 3800-43	00K	
x	0.3717	0.3942	0.3867	0.3669
у	0.3842	0.3986	0.374	0.3613





Reliability Test Items And Conditions

The reliability of products shall be satisfied with items listed below.

Confidence level :90%

LTPD :10%

Test Items	Test conditions	Quantity	Judging Criteria
Solderability	Solder Temperature: 240°C Solder Duration: (3.5±0.5) sec.	22	Solderable Area Over 95%
Thermal Shock Followed by High Temperature And High Humidity Cyclic	-40°→10min 5 Cycles † ↓ shift(2~3)min 100°C →10 min. 圖 25°C~55°C (90%~95%) RH 2 Cycles for 48 hrs., Recover for 2 hrs	22	C=0 & I**
Resistance For Soldering Heat	Reflow Soldering	22	C=0 & I**
DC Operating Life	1000 hrs. Forward Current: 60mA	22	C=0 & I**
High Temperature Storage	100°C ⊡ → 1000 hrs	22	C=0 & I**
High Temperature And High Humidity Cyclic	25℃~55℃ (90%~95%)RH 6 Cycles for 144 hrs., Recover for 2 hrs.	22	C=0 & I**

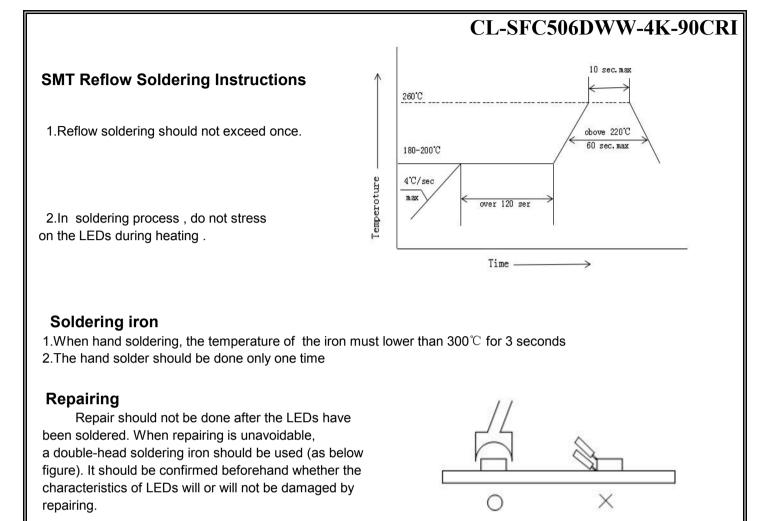
The thchnical iformation shown in the data sheets are limited to the typical characteristics and circuit examples

of the referenced products. It does not constitute the warranting of industrial property nor the granting of any license.

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Storage

The package is sealed:

1.Recommended storage condition :At 5 $^\circ\!\mathrm{C}\text{--}30\,^\circ\!\mathrm{C}$ and relative humidity 90% RH max.

2.It is recommended that SMD out of their original packaging are used within one year.

The package is opened:

- 1.Completed within 24 hours.
- 2.Stored at5°C~30°C and 60% RH or less.
- 3.LEDs stored more than 24 hours should be baked at about 65 $^\circ\!\mathrm{C}$

for at least 24 hours before solder assembly.

Handling Precautions

1.Do not stack together assembled PCBs containing LEDs. Impact may scratch the silicone lens or damage.



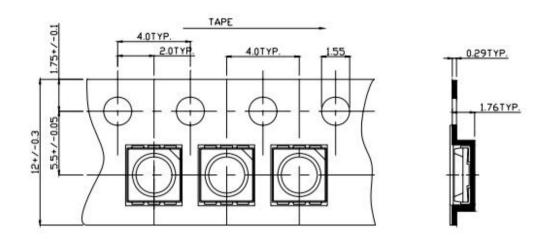
2.Not available in the situation of acidity for PH.







Carrier tape



Packgae: 1000pcs/reel

Note: The tolerances unless mentioned is ± 0.1 mm, Unit: mm

Moisture Resistant Packaging

