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# SPECIFICATION

*PART NO. : LP10W3-S804*

**LED BACKLIGHT**



Approved by

Checked by

Prepared by

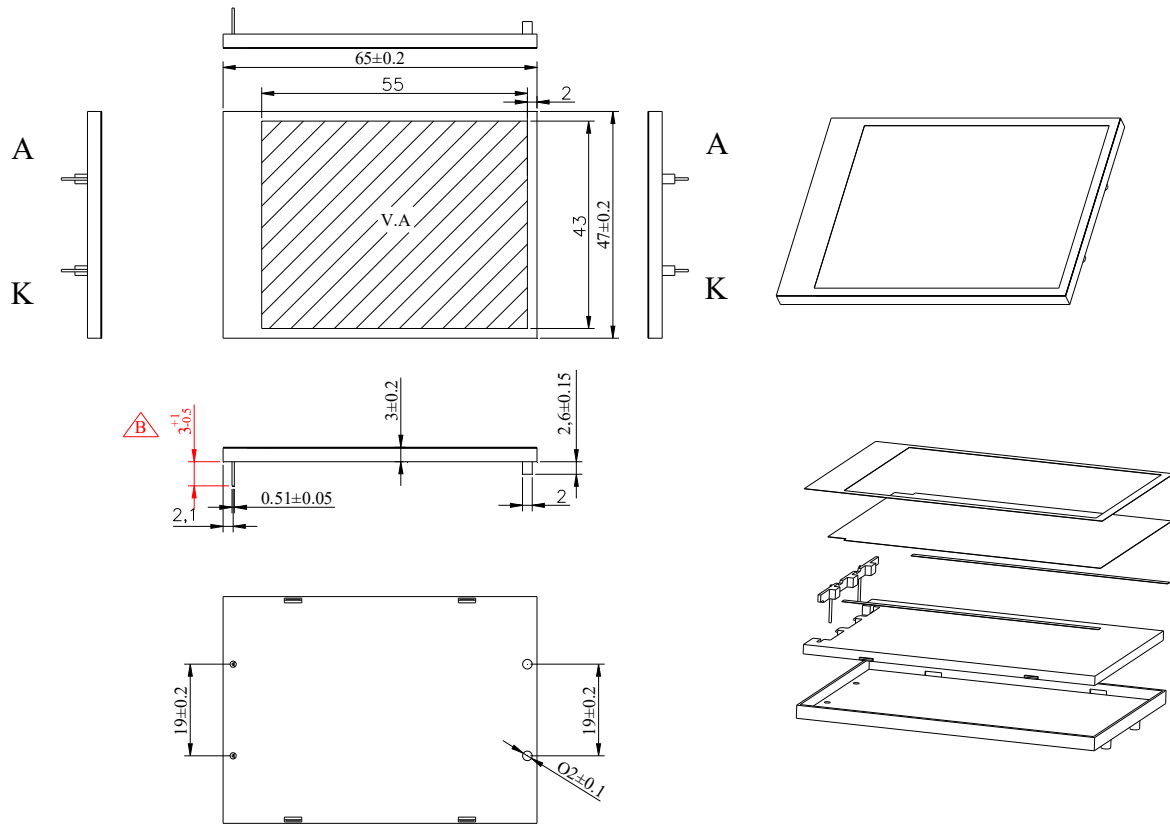
*KJ*

*YANG*

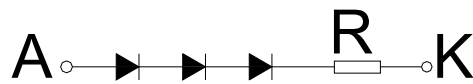
*DELI*



Dimensions



1. All dimensions are in millimeters..
2. Tolerance is  $\pm 0.30$ mm unless otherwise noted.



(R=49.9 OHM)

Backlight :3 chip-White LED  
 (Test condition:  $I_F=20\text{mA}$ ,  $V_F=10.8\text{V(Typ)}$ )

**LP10W3-S804****LED BACKLIGHT****Description**

Part No.	LED Chip	
	Material	Emitting Color
LP10W3-S804	InGaN	White

**Absolute Maximum Ratings at Ta=25 °C**

Parameter	Symbol	Rating	Unit
Power Dissipation	PD	250	mW
Pulse Current(1/10Duty Cycle,0.1ms Pulse Width.) Per LED	IFP	100	mA
Forward Current Per LED	IF	25	mA
Reverse (Leakage)Current Per LED	Ir	10	uA
Reverse Voltage Per LED	VR	5	V
Operating Temperature Range	Topr.	-20 to +60	°C
Storage Temperature Range	Tstg.	-30 to +70	°C
Soldering Iron Temp.(1.6mm from seating plane)		350 for 3s MAX.	°C
Electrostatic discharge (ESD)		6000	V

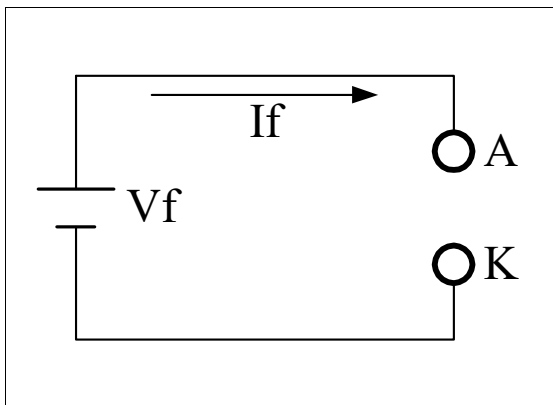
**Electrical and Optical Characteristics:**

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit	Remark
Forward Voltage	Vf	If=20mA	-	10.8	12.5	V	★1
Luminous Intensity	Iv	If=20mA	1000	1200	-		★2★3
Illuminance Intensity	E	If=20mA	6400	7800		Lux	★4
Luminous Tolerance	-	If=20mA	70	-	-	%	★2, ★3
Reverse Current Per Chip (Leakage Current Per Chip)	Ir	Vr=5V	-	-	10	μA	
CIE Chromaticity Coordinates	X	If=20mA	0.28	0.29	0.36	-	
	Y	If=20mA	0.28	0.30	0.36	-	

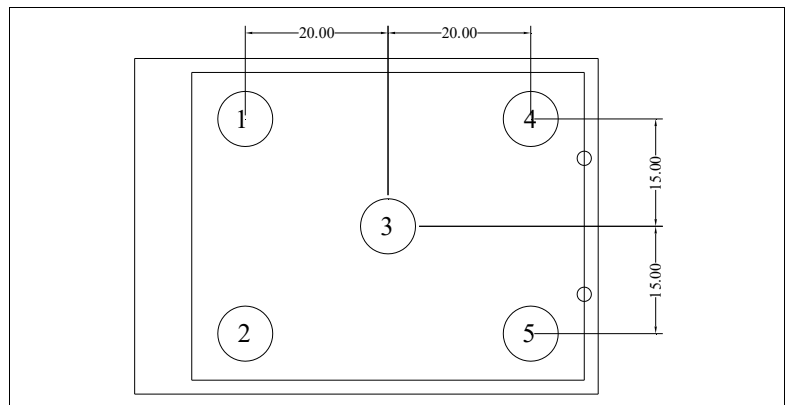
Notes: 1.Tolerance of Luminous Intensity is ±15%

**Remark**

**★1. Testing Method**



**★2. Brightness Measured Point**



NOTES: (1) The test equipment is "TOPCON"BM-7 . Field ( $\theta$ ) = 1°

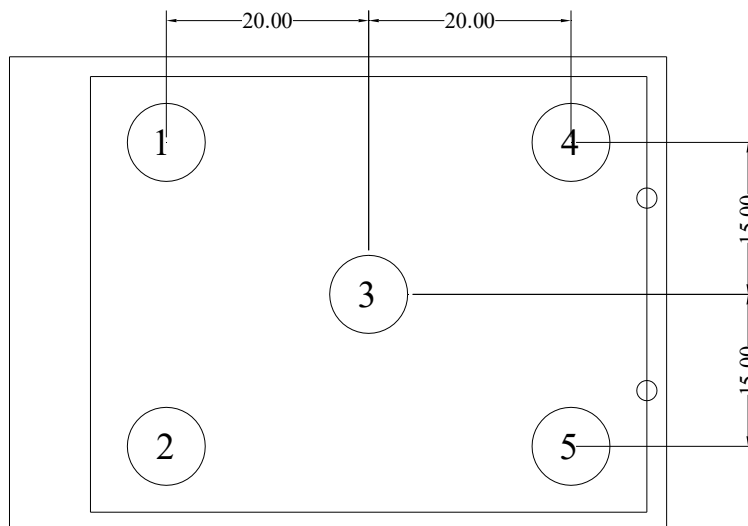
(2)The "TOPCON"BM-7 test position of luminous intensity is B1~B5.

★3. The"TOPCON"BM-7 test ★4. Th"YFE" YF-170 test

$$\text{Luminous Uniformity} = \frac{B(\text{MIN.})}{B(\text{MAX.})} \times 100\%$$

**Luminous Intensity Test Data:**

The test equipment is "TOPCON"BM-7



TEST CONDITIONS : VF =10.8V , If = 20mA Ta=25°C

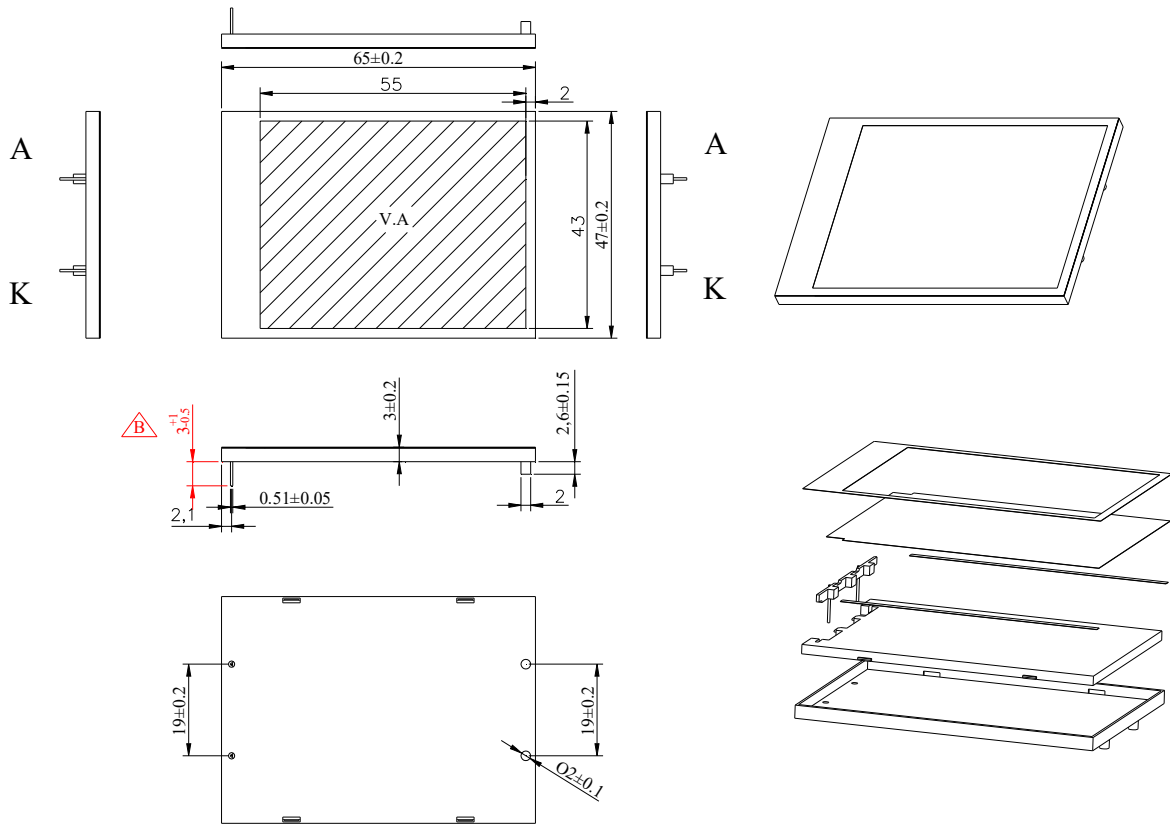
(1) The test equipment is "TOPCON"BM-7 Field (θ) ■=1°

NO	VF	IF (mA)	Location(CD/m <sup>2</sup> )					MAX CD/m <sup>2</sup>	AVG CD/m <sup>2</sup>	MIN CD/m <sup>2</sup>	均匀度 %
			B1	B2	B3	B4	B5				
1	9.47	20	1056	1077	1107	1202	1148	1202.0	1118.0	1056.0	88
2	9.53	20	1077	1092	1104	1142	1181	1181.0	1119.2	1077.0	91
3	9.53	20	1077	1040	1022	1217	1264	1264.0	1124.0	1022.0	81
4	9.54	20	1146	1079	1154	1071	1106	1154.0	1111.2	1071.0	93
5	9.53	20	1173	1193	1181	1173	1197	1197.0	1183.4	1173.0	98

Total insufficiencies : 0 Lesser insufficiencies : 0 Results :  Pass  Fail

Outline Dimensions Record Table

TC = 25°C



NIT : (mm)						
Specification	NO	1	2	3	4	5
65±0.3	A	64.98	94.96	94.99	65.01	64.98
47±0.3	B	46.96	46.97	46.98	46.98	46.97
3±0.3	C	3.08	3.07	3.06	3.07	3.06
19±0.3	D	18.98	18.97	18.99	18.99	18.97
3+1/-0.5	E	3.10	3.18	3.13	3.08	3.07
2.6±0.3	F	2.58	2.57	2.56	2.57	2.56

Total insufficiencies : 0 Lesser insufficiencies : 0 Results :  Pass  Fail

**Caution:**

During shipment and storage , the methods must not affect the product's quality ◦

**Package:**

- Inner package:  Antistatic sponge       PVC Box
- Outer package: Hard paper box ◦

