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S P E C I F I C A T I O N

Product : LED Backlight Driver

Model Name : GH519A(P26) GCCT

Name : GCCT519PU

Supportable Dimming : External PWM

February 2016

Revision History

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No	Date	Revision	Page
	Feb 2016	Engineering Sample Issued	

1. Application

This specification is an users' guidance for the adoption of mating LED driver.

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The target TFT LCD Module is **LG 24"**, **LM240WU8-SLE1** which has not been built-in the LED driver for 2 CH type Backlight.

2. Electrical Characteristics

2.1 Absolute Maximum Ratings

Item	Symbol	Spec	Unit	Remarks
Input Voltage1	Vin1	10.8 ~ 13.2	V	
Input Voltage2	On/Off	5.25	V	
Operating Temperature	Top	0 ~ 50	°C	
Storage Temperature	Tstg	-20~60	°C	
Relative Humidity	RH	80	%	

2.2. Control Signal

Pin No.	Symbol	Status	Action	Remarks
CN1 #9	On/Off	HIGH	LAMP-ON	2.4~5.25V
		LOW	LAMP-OFF	0.8V MAX

2.3. Output Characteristics

No.	Item	SYM	Condition	Min.	Typ.	Max.	Unit
1	Input Voltage	Vin1	-	10.8	12.0	13.2	Vdc
2	Input Current	Lin1	Vin=12.0V, DIM= 100%	-	-	1.5	A
3	Output Current	Lout(Max)	Vin=12.0V, DIM= 100%	120.0	130.0	140.0	mAmean
4	Backlight On / Off Control	ON	-	2.4	-	5.25	V
		OFF	-	-0.3	-	0.8	
5	PWM Signal	Vpwm	High(ON)	2.4	-	5.0	Vdc
		Vpwm	Low(OFF)	-0.3	-	0.8	Vdc
		Fpwm	-	-	180	-	Hz

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		Duty	Active High Level	0	-	100	%
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3. Interface

3.1 CN1 Connector (Input) : 12505WR-12A (YEONHO) or Equivalent

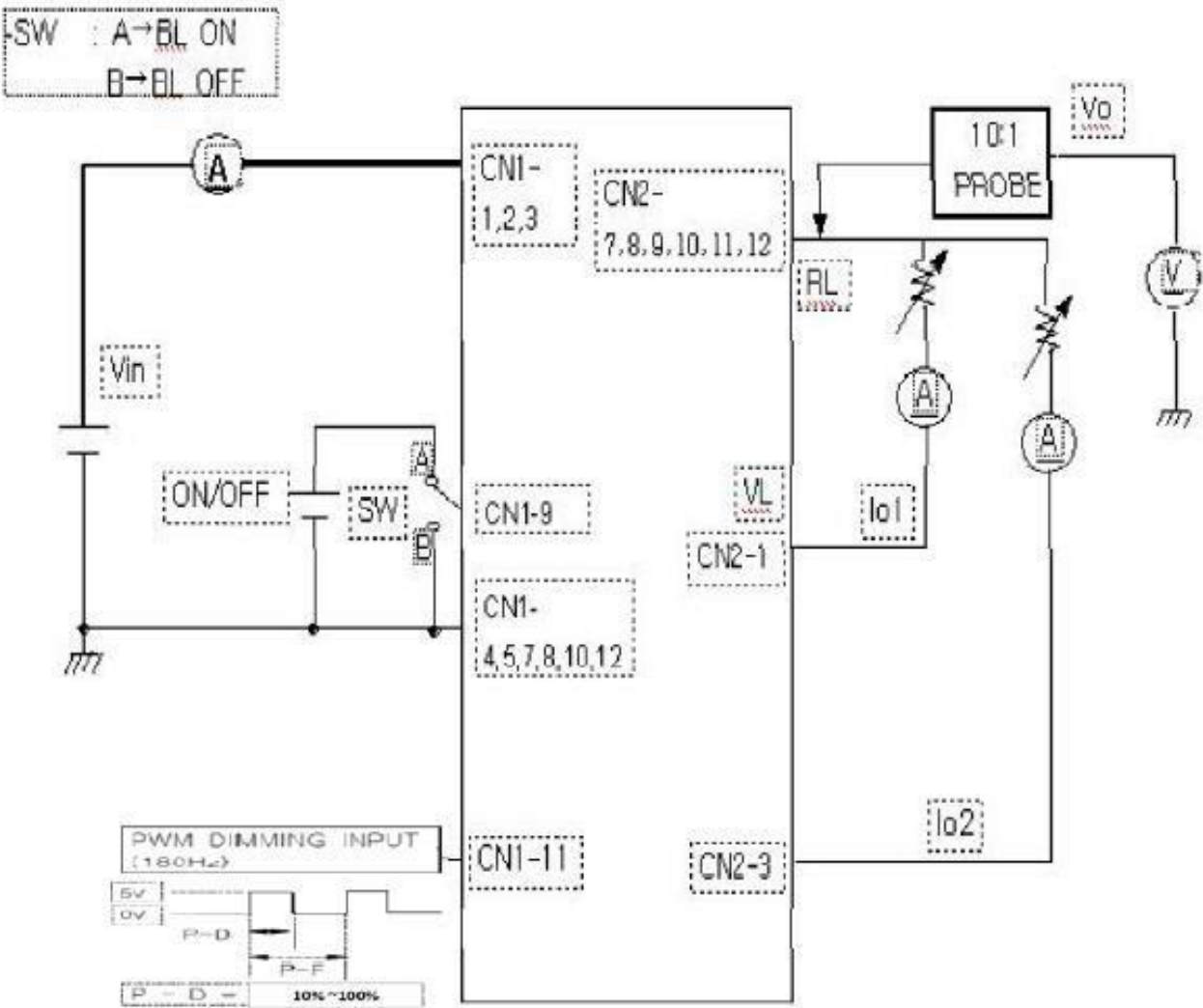
Pin No.	Symbol	Description
1,2,3	VIN	Voltage Input : 12V (typ)
4,5,7,8,10,12	GND	Ground
6	N.C	No Connection
9	On / Off	LED Driver On / Off Control
11	DIM	External PWM Dimming (0 ~ 100%, 180Hz)

3.2 CN2 Connector (Output) : 12505WR-12A (YEONHO) or Equivalent

Pin No.	Symbol	Description
1	FB1	Feedback 1 (Return 1)
2	FB2	No Connection
3	FB3	Feedback 2 (Return 2)
4	FB4	No Connection
5	FB5	No Connection
6	FB6	No Connection
7,8,9,10,11,12	VLED	System Output

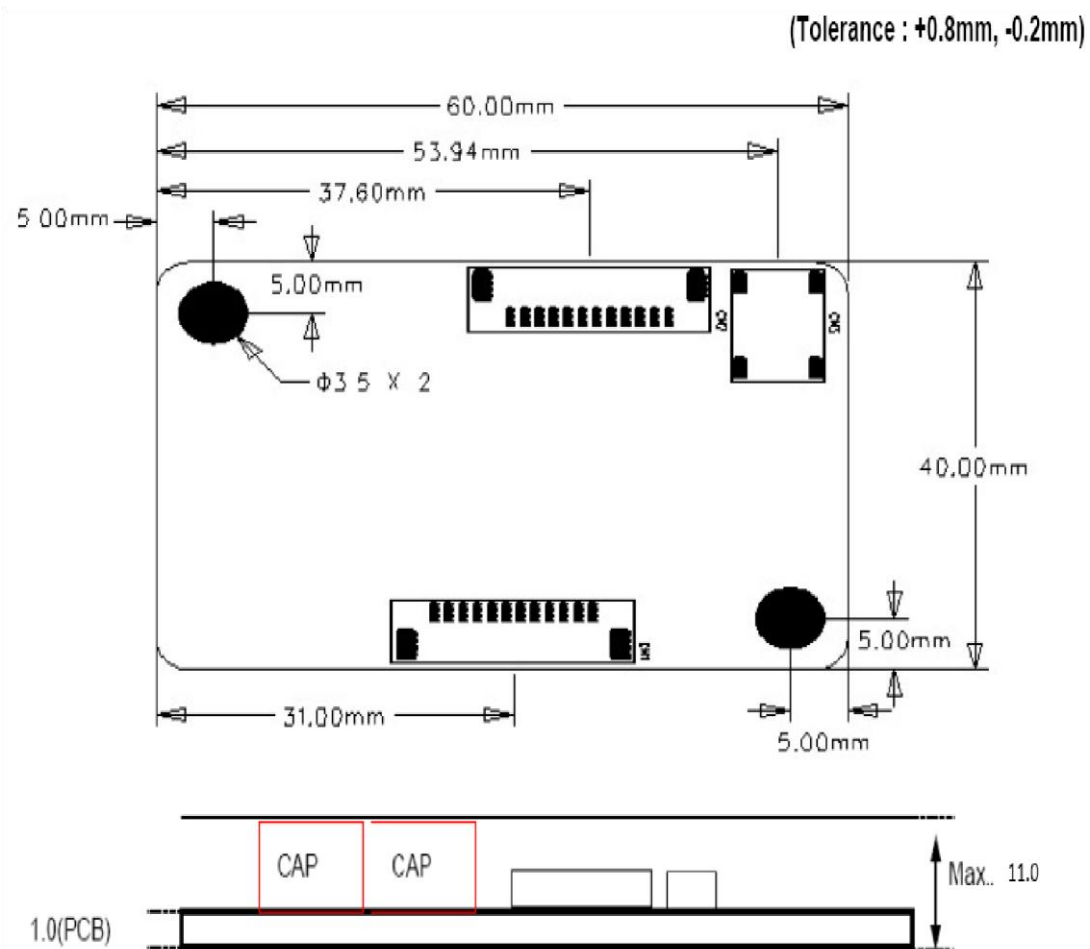
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3.3 Test Circuit



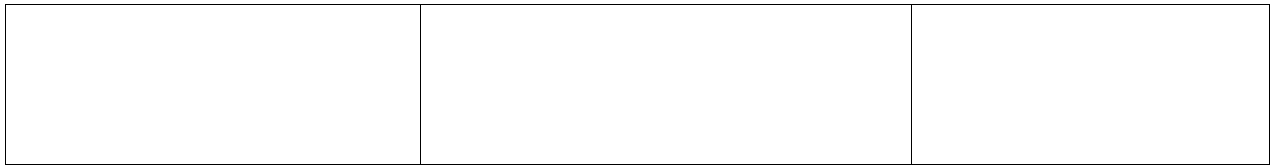
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4. Dimension (60 mm x 40 mm)



5. Product Label on the rear surface of PCB

Label on the rear surface of PCB



GH519A(P26)	: USER MODEL CODE
G	: MANUFACTURER CODE (GREEN C&C TECH.)
6	: YEAR OF PRODUCT 3 → 2013 , 4 → 2014 , ... , 9 → 2019
04	: WEEK OF PRODUCT 01,02,03,04,...52
A	: PUBLICATION NUMBER A,B,C,...Z,0,1,2,...9
0001	: SERIAL NUMBER 0001,0002.....9998,9999
PU	: GCCT MODEL CODE (GCCT519PU)

6. Product Pictures

Top View



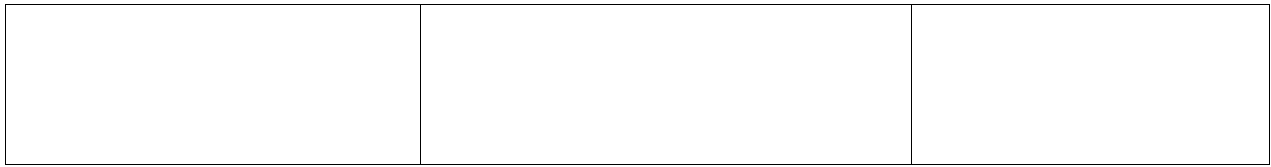
Bottom View

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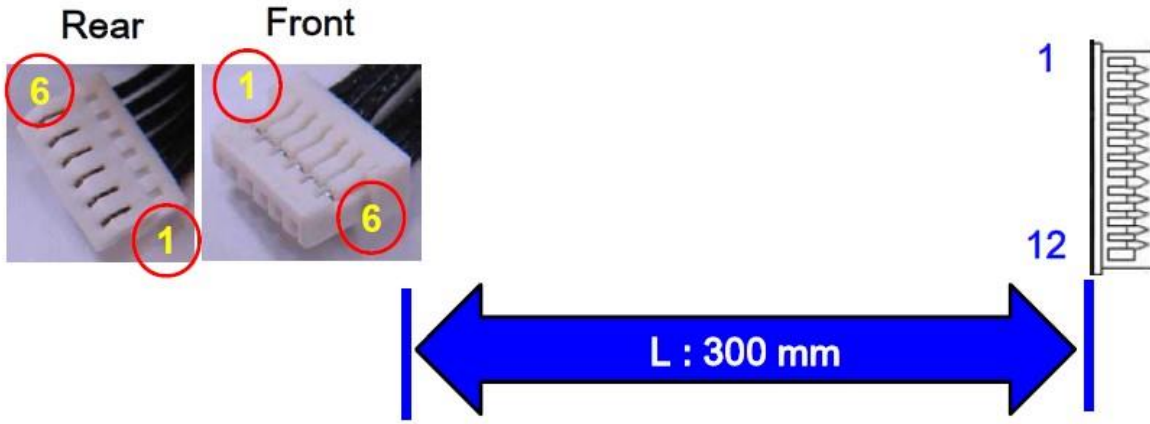


7. Connection cable (optional accessory)

7.1 Connection between LED driver and mating LCD panel



PN : LED301-2CH-SHJP06V



HOUSING : SHJP-06V-S(HF)

COLOR	SPEC	PIN
BLK	IRLED / C 1	1
	NC	2
RED	VLED / A 1	3
RED	VLED / A 2	4
	NC	5
BLK	IRLED / C 4	6

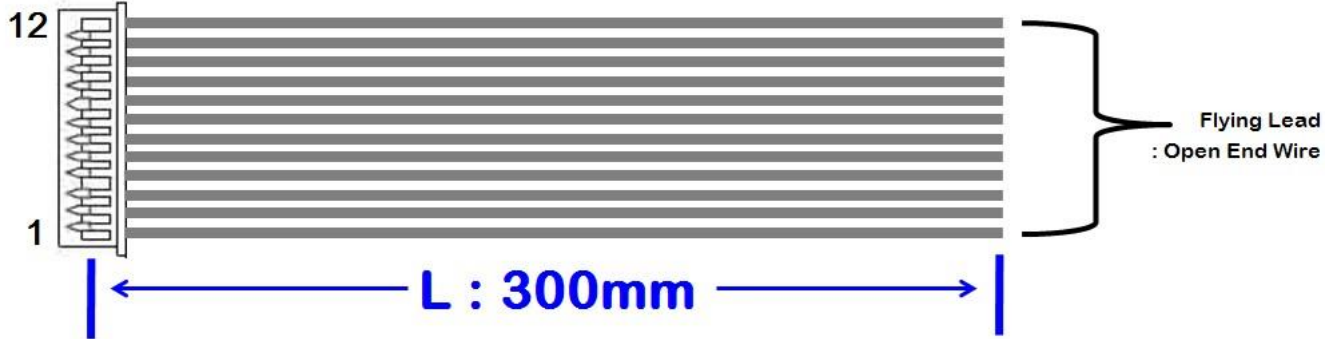
HOUSING : 12505HS-12/YEONHO

PIN	SPEC	COLOR
1	FB1	BLK
2	FB2	
3	FB3	BLK
4	FB4	
5	FB5	
6	FB6	
7	VLED	
8	VLED	
9	VLED	RED
10	VLED	
11	VLED	RED
12	VLED	

7.2 Connection between LED driver and customer's mating diver board

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PN : CBL300-LED12V-OPEN



12V INPUT CN1 for GH465A (Version : R3 Only)

W A F E R : 12505WR-12 (YEONHO)
H O U S I N G : 12505HS-12 (YEONHO)

PIN	SPEC	COLOR	CONNECTION	CABLE LENGTH
1	LED INPUT 12V	WHT	FLYING LEAD	300mm
2	LED INPUT 12V	WHT	FLYING LEAD	300mm
3	LED INPUT 12V	WHT	FLYING LEAD	300mm
4	GND	WHT	FLYING LEAD	300mm
5	GND	WHT	FLYING LEAD	300mm
6	P-DIM	WHT	FLYING LEAD	300mm
7	GND	WHT	FLYING LEAD	300mm
8	GND	WHT	FLYING LEAD	300mm
9	ON OFF	WHT	FLYING LEAD	300mm
10	GND	WHT	FLYING LEAD	300mm
11	A-DIM	WHT	FLYING LEAD	300mm
12	GND	WHT	FLYING LEAD	300mm