LED Driver Board
Engineer Specification
V1.00

Model	25-xxxx		
Edited by	Bill	**Release Date**	
Checked by	Taco	**Release Version**	
Approved by			

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Record of Revision

Version	Date	Page	Description	Remark
1.00	2022.10.07		New	

Contents

Application

This is a high efficiency LED backlight driver board which is capable to driving up to 4 channels of LED strings. This board provides the user with OVP/OTP and OCP features.

Applicable Panel Type

Electrical Characteristics

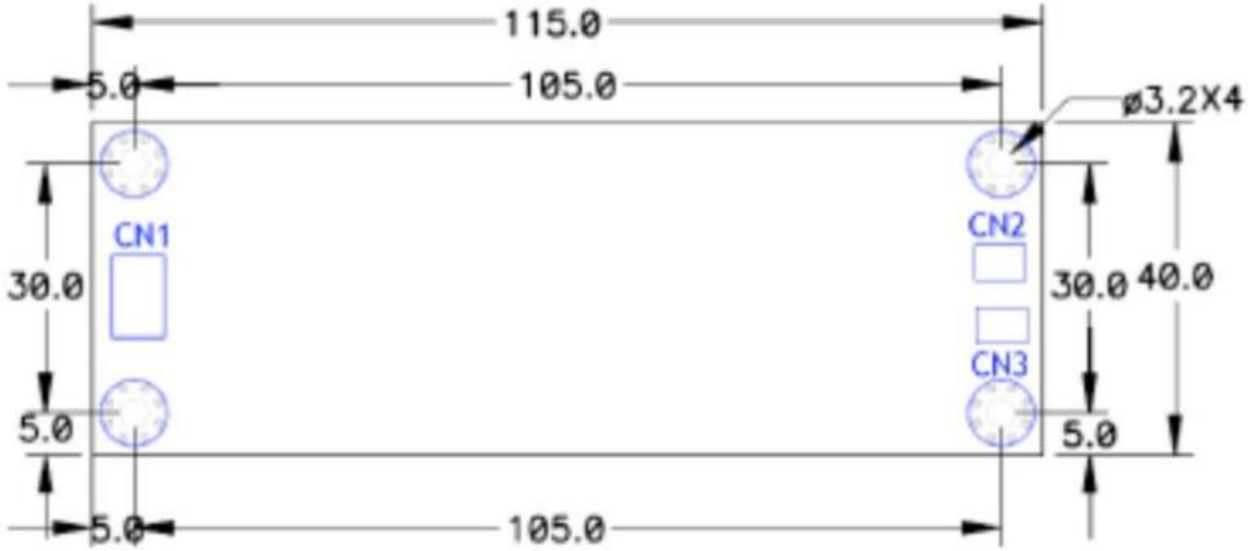
Parameter		Min.	Typ.	Max.	Unit	
InputVoltage	Vin	10.8	12.0	13.2	V	
Input Current	Iin	--------	--------	3.5	A	
Output Voltage	Vout	--------	--------	60	V	" * "
Efficiency	Eff.	--------	80	--------	%	
Output Current (Per String)	Io	--------	--------	800	mA	" * "
LED ON/OFF	Von	2.5	--------	5.0	V	
	Voff	0	--------	0.5		
Dimming	PWM Level	2.5	--------	5.0	V	
	Duty Ratio	20	--------	100	%	
	Frequency	0.1	--------	20	KHz	

Note: " * "Depend on panel specification

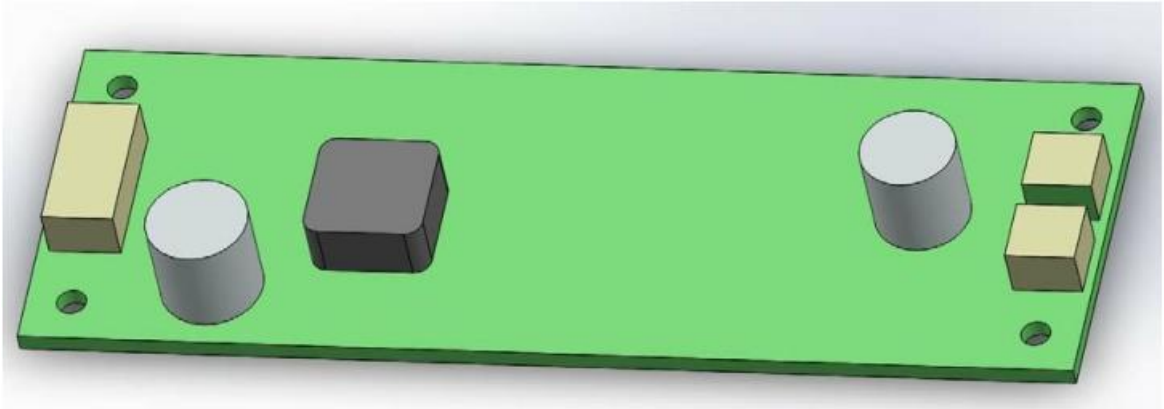
Note 1 : Power Consumption Max. less than 45W .

Picture

PCB Dimension



3D Drawing



Connector Pin Assignment

CN1 – LED Driver Input

Connector	MS24266 , Pitch 2.0 Connector , Wafer
Mating Connector	A2001H-6P or Equivalent

No.	Symbol	Description
1	GND	Ground
2	GND	Ground
3	BL_PWM_DIM	Backlight PWM Signal Input
4	BL_Enable	Backlight On/Off enable
5	12V	Backlight Power 12V input
6	12V	Backlight Power 12V input

CN2 – LED Power Output

Location CN2 & CN3

Connector	MS24262 , Pitch 2.0 Connector , Wafer
Mating Connector	A2001H-2P or Equivalent

No.	Symbol	Description
1	VLED	LED Power Supply Voltage Input Terminal
2	IRLED	LED Current Feedback Terminal

Item & Label