

Preliminary Specifications

Final Specifications

Title	Backlight Driving Board
Model Name	DB-LDA001-4-043
Version	Rev.0

Customer	
Approved by	Date
Notice: This Specification is subject to change without notice.	

Approved By	Prepared By
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3ASCREEN



Revised Record

3AS

1.General Function

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

This Product Specification is made to be the standard of 3AScreen manufactured LED Driving Board such a standard will be followed in 3AScreen production, shipment, and quality inspection.

2.Interface



- 2-1. CN2: Input Connector
- 2-2. CN3: Output Connector

Ordering information:

DB-LDA001-4-043 (output: CN3 connector for 4 string LED light bar, 43mA per string)

3.Electrical Characteristics

<u>Parameter</u>		<u>Min.</u>	<u>Typ.</u>	<u>Max.</u>	<u>Unit</u>
Input Voltage	Vin	10.8	12.0	26	V
Input Current	Iin	---	3	---	A
Output Voltage	Vout	---	---	57	V
Efficiency	Eff.	---	80	---	%
Sub Current	Iout	---	43	---	mA
Total Current	Iout	---	172	---	mA
LED ON/OFF	Von	2.5	---	5.0	V
	Voff	0	---	0.5	
Dimming	PWM Level	2.5	---	5.0	V
	Duty Ratio	0	---	100	%
	Frequency	0.1	---	20	KHz

*** Depend on panel type

4. Interface Characteristics

4.1. Input Connector

Location – CN2: 7pin wafer , pitch 2.0mm R/A , STM MS24017R or equiv

Pin Assign and Definition

Pin No.	Symbol	Pin No.	Symbol	Pin No.	Symbol
1	+12 V	4	GND	7	ADJ
2	+12 V	5	ON/OFF		
3	GND	6	NC		

4.2. Output Connector

Location – CN3: 6pin wafer , pitch 2.0mm R/A , STM MS24016R or equiv

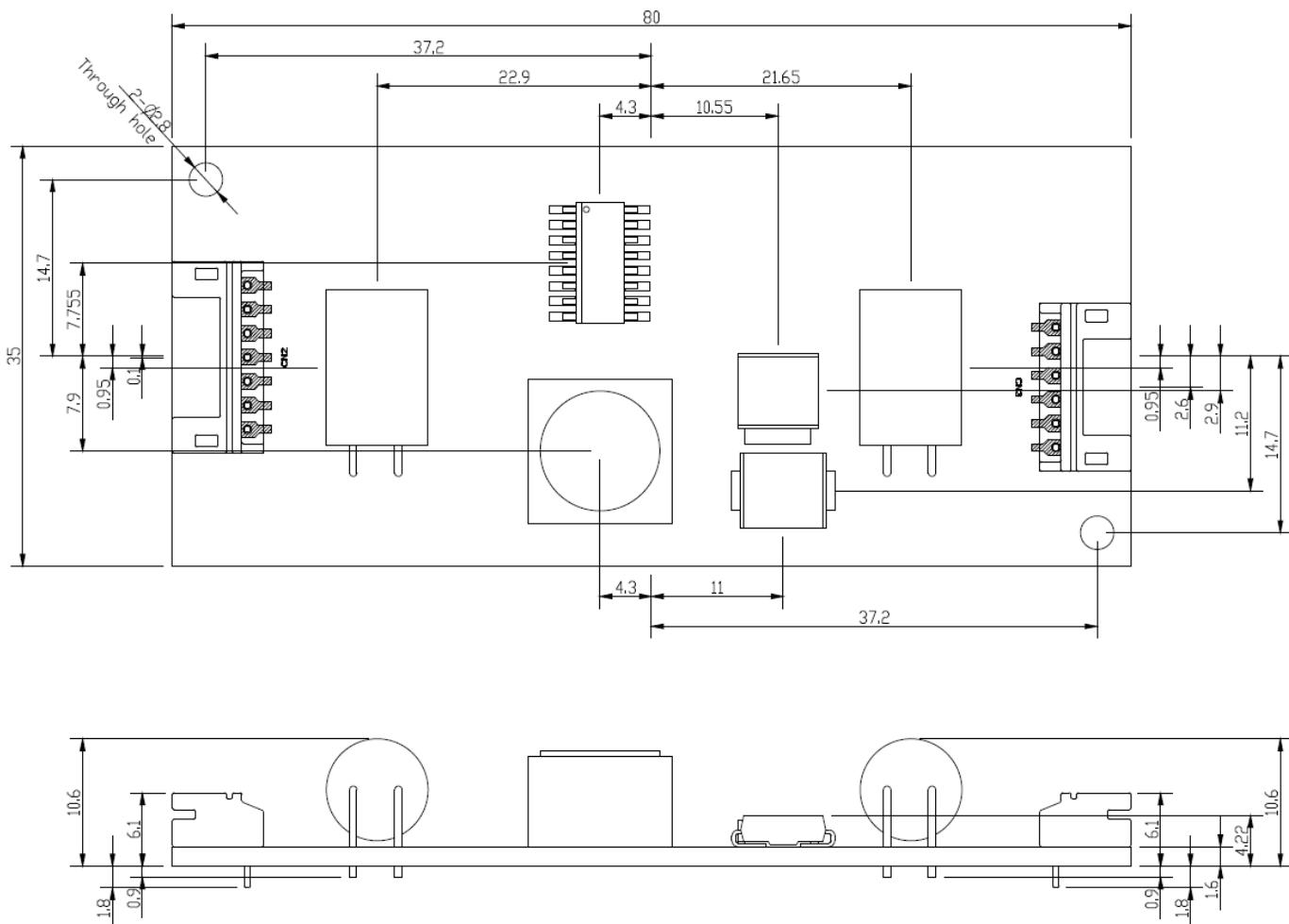
Pin Assign and Definition

Pin No.	Symbol	Pin No.	Symbol
1	IRLED_1	4	VLED+
2	IRLED_2	5	IRLED_3
3	VLED+	6	IRLED_4

5. Mechanical Characteristics

Dimension: 80(L) *35(W) *12.4(H) mm

Weight: MAX. 18g



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