



**Tentative**

# **Specifications and Applications**

## **LED Driving Board**

**LED-265120**

Product Version: V1.0S



**RoHS Compliance**

**Issue Date:18-Aug-2009**

**Document Version: 1.0S**

### Revision History

Version		Date	Page	Section	Description
Product	Document				
V1.0S	1.0	2009/8/18			First Release

<Remarks>

### 1. General

The LED-265120 driving board is designed for LED-Array backlight module. It is a high efficiency and low profile driving board. Wide diming control allows users to set LED brightness smoothly. Power protection feature is able to protect LED module from damage by over current or over voltage.

### 2. Features

- High Efficiency
- Low Profile and Compact Design
- Constant LED Current( 120mA)
- PWM Dimming Control
- Short Circuit and Overload Protection
- External Power On/Off Control

### 3. Mechanical Characteristics

	L	W	H
Dimension	100mm	30mm	7.5mm
Weight	MAX. 24g		

### 4. Connectors

Conn. No.	Brand	Parts No
CN1	JST	S7B-PH-K
CN2	Molex	53261-15

### 5. Pin Number

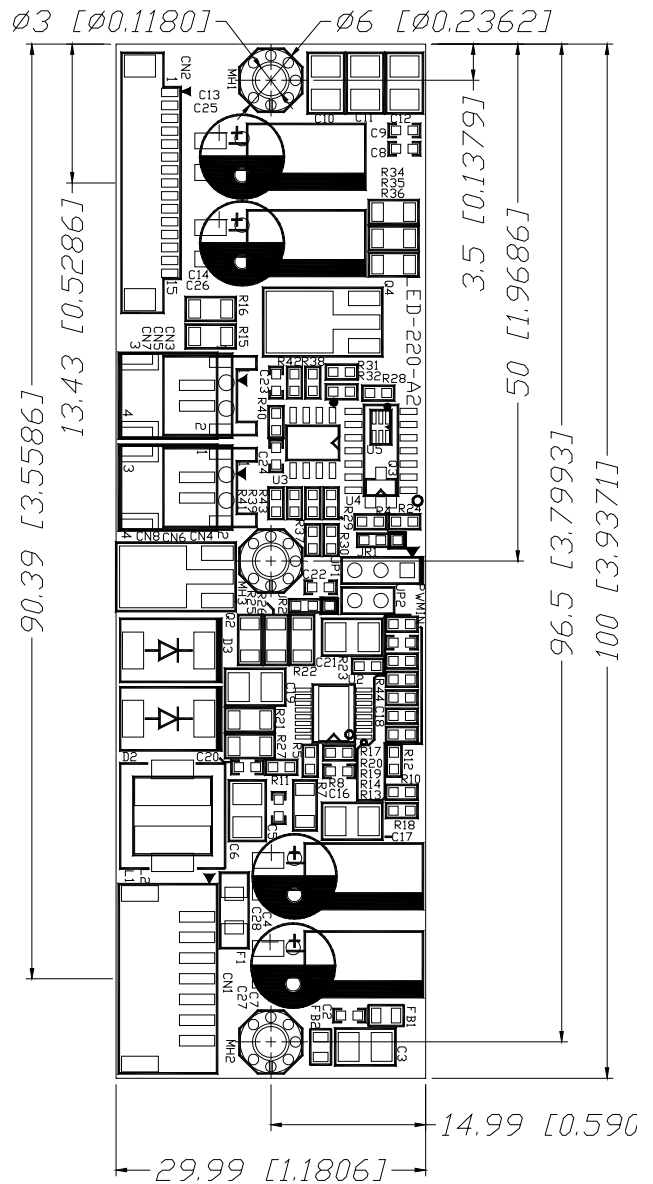


CN1 (pin1)



CN2(pin1)

### Mechanical Specifications



Max.Height: 7.50mm

**6. LCD Application**

LCD Model	LCD Model	Remark
NEC NL10276BC20-18		

**7. Operating Conditions**

Item	Symbol	Conditions	MIN	MAX	Unit	Remark
Input Voltage	Vin		11.5	12	V	
Operating Temperature	Top	Ha ≤ 90%RH	-20	70	°C	
Storage Temperature	Tstg	Ha ≤ 95%RH	-30	85	°C	
Operating Humidity	Hop	Ta=0~55°C	20	90	%RH	
Storage Humidity	Hstg	Ta=20~80°C	-	95	%RH	

**8. Operating Characteristics**

Unless otherwise noted Vin=12 Volts DC and T=25°C

Item	Symbol	MIN	TYP	MAX	Unit	Remark
Input Voltage	Vin	11.5	12	12.5	V	
Output Voltage	V-led	-	30.4	35.1	V	
Efficiency	H	78	80	82	%	
Output Current	I-out	-	120	-	mA	
Turn-on Threshold	V-thon	1.8	5	9.7	V	
Turn-off Threshold	V-thoff	-	1	1.3	V	

## 9. Connector pin description

9-1. (CN1) Input Connector			
Pin No.	Symbol	Description	Remark
1	BKLT	VDD	
2	BKLT	VDD	
3	GND	Ground	
4	GND	Ground	
5	ENA	Enable	
6	PWM	Brightness Control	
7	AR	NC	

9-2. (CN2) Output Connector			
Pin No.	Symbol	Description	Remark
1	LEDIN1	Anode1	
2	LEDIN2	Anode2	
3	LEDIN3	Anode3	
4	LEDIN4	Anode4	
5	LEDIN5	Anode5	
6	LEDIN6	Anode6	
7	LEDO1	Cathod1	
8	LEDO2	Cathod2	
9	LEDO3	Cathod3	
10	LEDO4	Cathod4	
11	LEDO5	Cathod5	
12	LEDO6	Cathod6	
13	ENA	Enable	
14	PWM	PWM	
15	VCC	VCC	

10. Driving Board Picture