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Premium Optical Lamination of Clear and Matte Anti-Reflection Film  
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Financing and Backlight Repair  
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# LITEMAX LID08A02

## LED Driving Board

(1st Edition 6/6/2008 )

All information is subject to change without notice.

Approved by	Checked by	Prepared by
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## General

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### LED Application

This specification is applied to LED converter unit for SP0835 LED backlight

### Operating Characteristics

Item	Symbol	Conditions	MIN.	TYP.	MAX.	Unit	Remark
Input Voltage	Vin		10.0	12.0	14.0	V	
Input Current (Low Brightness)	IinL	VIN=12V,Vadj=5V	0.0	-----	-----	mA	
Input Current (High Brightness)	IinH	VIN=12V,Vadj=0V	580	595	610	mA	
LED Current (Low Brightness)	IoutL	VIN=12V,Vadj=5V	0.0	-----	-----	Arms	
LED Current (High Brightness)	IoutH	VIN=12V,Vadj=0V	223	297	334	mA	
Working Frequency	Freq	VIN=12V,Vadj=0V	120	125	130	KHZ	
PWM Frequency	Freq	VIN=12V	180	200	220	HZ	
Brightness Control	Vadj	Connection of Voltage	0.5	-----	4.8	V	
ON/OFF Control	Von/off	Normal Operation	2	-----	5	V	
Output Voltage	Vout	VIN=12V,Vadj=0V	21.464	21.775	22.177	V	
Efficiency	$\eta$	VIN=12V,Vadj=0V	82.53	90.58	86.73	%	

### Environment

Operation Temperature	-20 ~ 70°C
Operation Humidity	% Max.RH
Storage Temperature	-40 ~ 85°C
Storage Humidity	% Max.RH

## Connector Socket

Input Connector: LJ1 (JST B2B-PH-K-S or Compatible)

:

PIN No	Symbol	Description
1	Vin	DC+12V
2	Vin	DC+12V
3	Vin	DC+12V
4	GND	Ground
5	GND	Ground
6	GND	Ground
7	Brightness	Brightness Control 5V~0V
8	Control	ON/OFF Control 0.8V(OFF) 2~5V(ON)

Output Connector: LJ2, LJ3 (JST S2B-EH or Compatible)

:

PIN NO	Symbol	Description
1	Output	LED High Voltage( + )
2	Output	LED Low Voltage ( - )

## Mechanical Characteristics

Dimension: 124mm\*50mm\*15mm

**INPUT CONNECTOR**  
 LJ1:  
 PIN1:VIN  
 PIN2:VIN  
 PIN3:VIN  
 PIN4:GND  
 PIN5:GND  
 PIN6:GND  
 PIN7:BRIGHTNESS  
 PIN8:ON/OFF

