

# NHD-5.7F-LED Driver

## LED Backlight Driver

RoHS Compliant

**Newhaven Display International, Inc.**

2511 Technology Drive, Suite 101

Elgin IL, 60124

Ph: 847-844-8795 Fax: 847-844-8796

[www.newhavendisplay.com](http://www.newhavendisplay.com)

[nhtech@newhavendisplay.com](mailto:nhtech@newhavendisplay.com)

[nhsales@newhavendisplay.com](mailto:nhsales@newhavendisplay.com)

## Document Revision History

Revision	Date	Description	Changed by
0	07/28/2010	Initial Release	MC

## Functions and Features

- HIMAX HA7106 LED Driver
- 5V power supply input for 23.5V output, for **NHD-5.7-640480WF** series displays

## ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Operating Temperature Range	-	Absolute Max	-20	25	70	°C
Storage Temperature Range	-	Absolute Max	-30	25	85	°C
Input Voltage	VDD	-	4.5	5.0	5.5	V
Supply Current	IDD	VDD=5V	289	305	311	mA
Output Current	Iout	VDD=5V	-	58.6	-	mA
Output Voltage	Vout	VDD=5V	-	23.5	-	V

## J1 Pin Description (user input)

Pin No.	Symbol	External Connection	Function Description
1	GND	Power Supply	Ground for LED driver circuit
2	VDD	Power Supply	Power Supply for LED driver circuit

Connector: **2.54mm pitch through-holes**

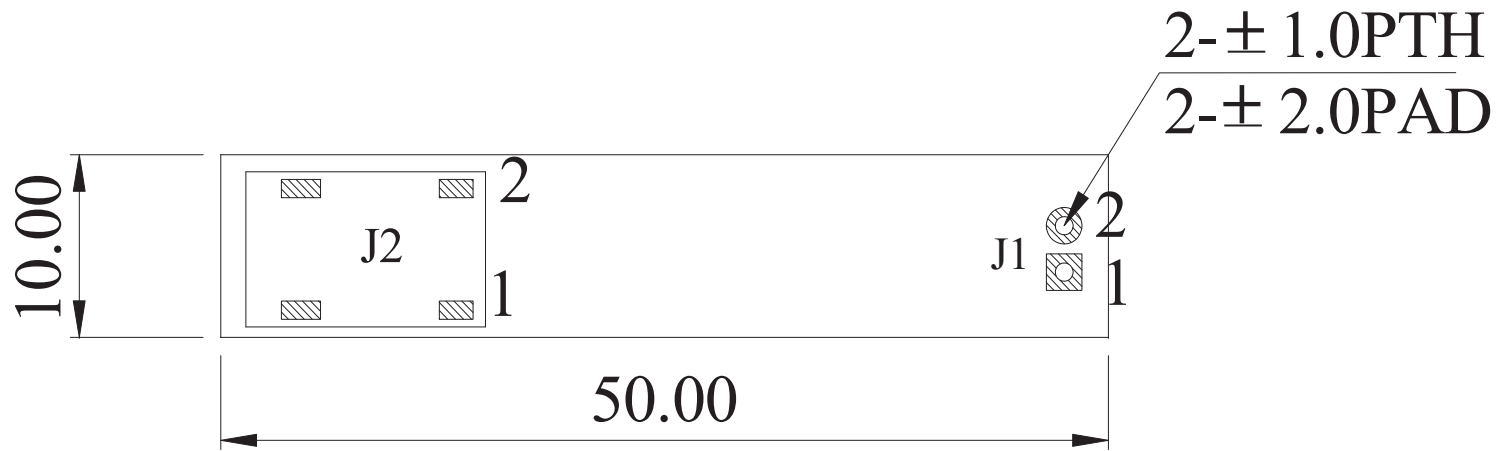
## J2 Pin Description (output)

Pin No.	Symbol	External Connection	Function Description
1	LED-	K	Ground for LED backlight
2	LED+	A	Power for LED backlight

Connector: **SM 02B-BHSS-1**

Connector on display backlight: **BHSR-02VS-1**

# Mechanical Drawing



J2

PIN NO.	SYMBOL
1	B/L -
2	B/L +

J1

PIN NO.	SYMBOL
1	V <sub>SS</sub>
2	+5V

Newhaven Display

NHD-5.7-F LED Driver