



Optillis

LPS150A-3

LED Backlight Power Control (High Bright)

Features

- Low Cost – Constant Current Led Backlight Driver Board
- Form Factor and Control Interface compatible to existing CCFL Driver Boards
- 3 / 4 wire operation
- 87% efficiency
- RoHs / UL 94V-0
- Extended Temperature Range
- Power on Soft Start

Panel Support

15" T-55534D150J-LW-A-AAN (800 nit)

Specifications

- 6 – 18 VDC input voltage
- Enable Input: 0.3V or less=OFF, 2V or greater=ON. Not Connected defaults ON.
- Brightness Control Input : 0 – 5.0 VDC (0 – 100%)
- -40 to 85 C operating temperature
- Weight 0.4 oz (10g)
- 0.900"W x 4.35"L x 0.4" H

Options

- Custom form factor, connectors
(CONSULT FACTORY)

Electrical Characteristics (Values are total current – 6 strings)

J1 Connector

PIN	INPUT	FUNCTION	PARAMETER	NOTES
1	Vin	Input Power	6-18Vdc	
2	GND	Ground	0V	
3	Vcontrol	Brightness Control	0-5Vdc (0-100%)	18Vdc Max
4	Enable	On/Off	0.3V or less = Off 2V or greater = On	Open = On

Mechanical Characteristics

- **Power / Control connector – J1** (above)
 - **Hirose DF13-4P-1.25H(50)** (Mating connector **Hirose DF13-4S-1.25C**)
- **LED connector – J2**
 - **Hirose DF13-10P-1.25H(50)** (Mating connector **Hirose DF13-10S-1.25C**)

J2 Connector

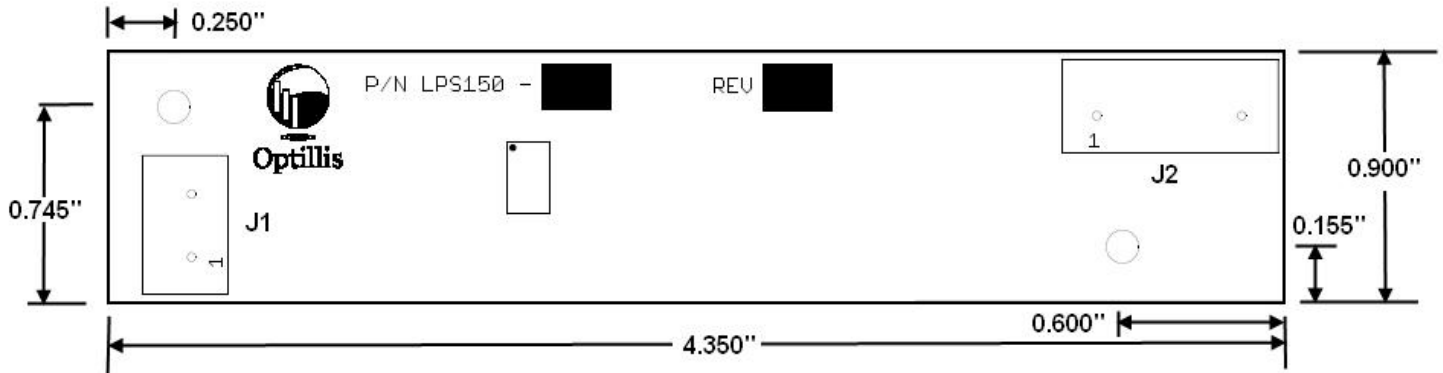
PIN	OUTPUT	PIN	OUTPUT
1	NC	6	Cathode 2
2	NC	7	Cathode 3
3	Cathode 1	8	Anode 3
4	Anode 1	9	Anode 4
5	Anode 2	10	Cathode 4

Note: 10" Cable assembly (Driver board to LCD) Part # LPS1200A-CBL-10

- **Dimensions / Connector location for P/N LPS150A-3**

Note:

1. (2) 0.120" mounting holes



Part Numbering / Ordering

LPS150A-xy

x – LCD type

- 3

Panel Support:
15" T-55534D150J-LW-A-AAN (800 nit)

y – Enable Control Voltage

- Blank Connection not required. Default ON with internal pull up to Vin. Can be disabled with GND connection.
- 1 (Non-Std) 2 VDC or greater = Enabled. 1VDC or less = Disabled.

Optional:

1. 10" Cable assembly (Driver board to LCD) Part #
 - a. LPS1200A-CBL-10
2. Input Cable
 - a. LPS150A-CBL-PWR