

INPHENIX

Evaluation Board for Super-Luminescent Light Emitting Diodes (SLDs)

IPEVM1020

Feature

- Adjustable Forward Current up to 650mA*
- Temperature Controlled to 25°C
- Single +5V Power Supply Input

Applications

- Evaluation of InPhenix's SLD Devices

Performance Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit
SLD Forward Current	I_F	-	250	650*	mA
Chip Temperature	T_C	-	25	-	°C
TEC Current @ 25°C	I_{TEC}	-	0.4	1.2	A
Power Consumption	P	-	4	7	W
Physical Dimensions		140 × 118			mm × mm
Connection	See Pin Assignment Table				

* Base this setting upon each SLD Device's maximum rated current.

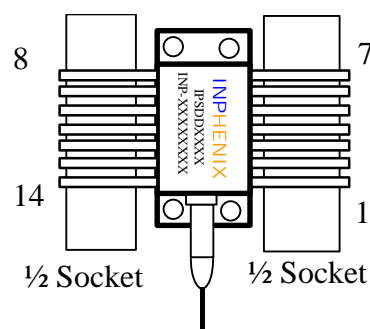


Butterfly/DIL Socket Pin Assignment

Pin	14-pin DIL Package	14-pin Butterfly Package
1	TEC+	TEC+
2	NC	Thermistor
3	NC	Same as 2
4	NC	Same as 5
5	SLD Anode(+)	Thermistor
6	NC	NC
7	NC	NC
8	NC	NC
9	SLD Cathode(-)	NC
10	CASE	SLD Anode(+)
11	Thermistor	SLD Cathode(-)
12	Thermistor	NC
13	NC	NC
14	TEC-	TEC-

Power Port Pin Assignment

Pin	Connection
+5V	+5V DC+
GND	GND



14 Pin SLD Connection

INPHENIX

Operation Instructions

- 1) Connect the customer provided universal power AC/DC adaptor (output +5V) to the DC jack on the board, and make sure the power switch is at the OFF position.
- 2) Tune the knob counterclockwise fully until it stops to ensure the drive current is 0mA when the power becomes turned on.
- 3) Mount SLD into SLD socket and screw it down to ensure good contact with heat sink.
- 4) Turn on the power switch. The Temperature OK indicator will blink for a second and remain on. The green LED indicates operation is normal. Please check the SLD connection if the LED is off or abnormal.
- 5) Tune the knob clockwise to increase the drive current or counterclockwise to decrease drive current.
- 6) When testing is finished, decrease the current to 0mA and turn off the power before detaching the SLD.

Part Number:

IPEVM1020 – X

X = **1** for 14-pin DIL package
 2 for 14-pin Butterfly package

Optional:

Order +5V/2A Universal Power (100VAC-240VAC) AC/DC Adaptor from InPhenix.

Corporate Office

250 North Mines Rd
Livermore, CA 94551
Tel: 925.606.8809
Fax: 925.606.8810
www.inphenix.com