

LED Backlighting DC-DC Converters

Features

- ◆ Two to Five Strings
- ◆ 12VDC Input
- ◆ Analog or Resistive Dimming
- ◆ Low Profile
- ◆ Off the shelf solution



Key Market Segments & Applications



Specifications

Model	ALD-214012PJ111	ALD-310012PJ125	ALD-414012PJ126	ALD-514012PJ134			
Number of LED Strings	-	2	3	4			
DC Input	VDC		10.8 - 13.2VDC				
Input Current Max.(norm./inhib.)	A	1.2 / 0.001A	1.5 / 0.001A	2.0 / 0.001A			
Output Current (each string)	mA	140mA	100mA	140mA			
Dimming Frequency	Hz	200Hz	225Hz	200Hz			
Analog Dim. (Dark to Light) Vbr	VDC	2.5V to 0V	0V to 4V (Vbr2)	2.5V to 0V			
Analog Dim. (Dark to Light) Rbr	kΩ	50 - 0kΩ	0 - 10kΩ	50 - 0kΩ			
PWM Dimming	VDC	2.5V to 0V	0 to 2.5V	2.5V to 0V			
Remote On/Off (Vrmt)	VDC		OFF: 0V - 0.4V, ON: 2.5V - Vin				
Maximum Output Voltage	VDC	44V	38V	44V			
Oversupply Alarm	VDC		Approximately 5V if any one string is open				
Operating Temperature	°C		-30 to +85°C				
Storage Temperature	°C		-40 to +85°C				
Maximum Humidity (1)	%RH		95%RH (Storage or Operating)				
Cooling	-		Convection				
Input to Output Isolation	-		None				
Vibration	-	588m/s ² (60G) 11ms Half-sine wave once each axis X,Y,Z,-X,-Y,-Z total 6 times					
Shock	-	5~10Hz Amplitude 10mm 10~200Hz Accelerated Velocity 21.6m/s ² (2.2G)					
Weight (Typ)	g	9g	9g	22g			
Size (LxWxH)	mm	85 x 21.5 x 5mm	85 x 21.5 x 5.5mm	100 x 50 x 5.2mm			
Warranty	Yr		One Year				

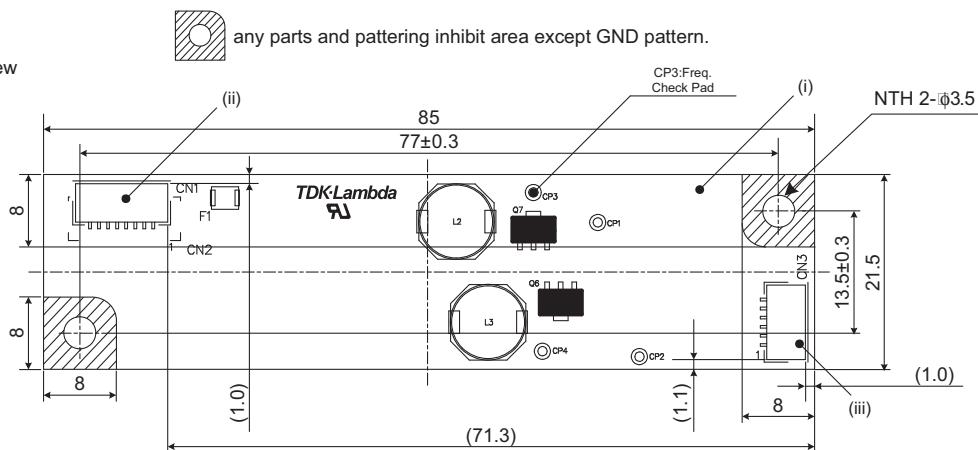
Note: See Installation Manual for full details, test methods of parameters and application notes

(1) non condensing

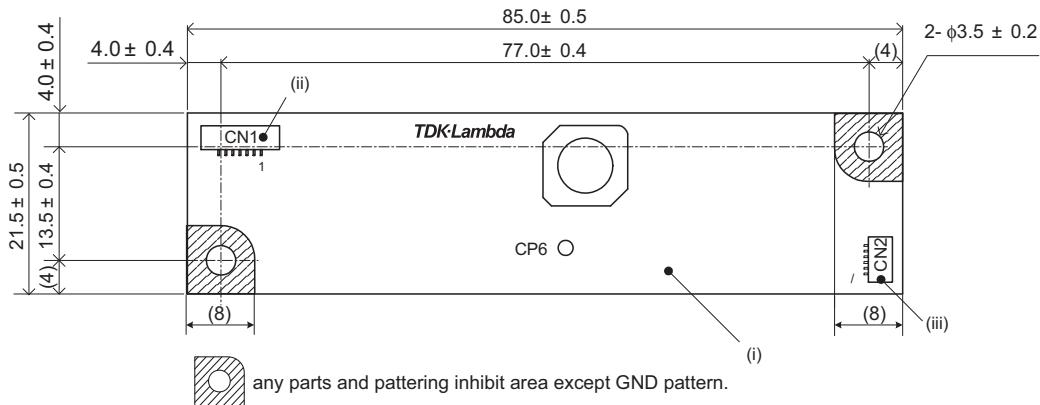
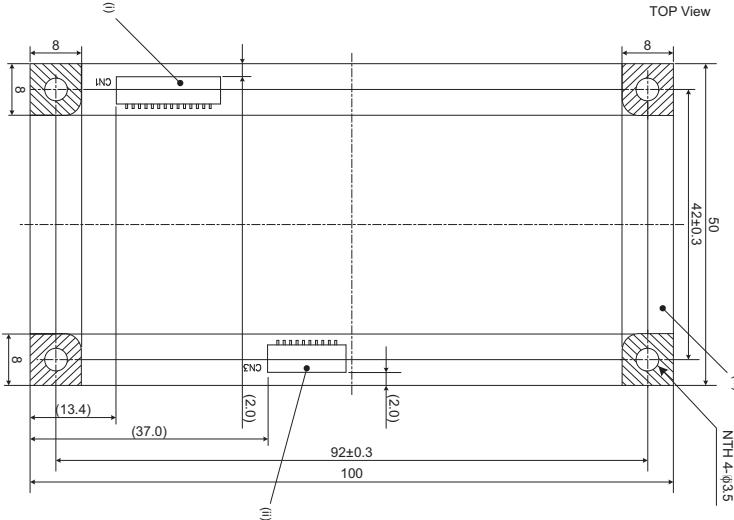
Outline Drawing

ALD-214012PJ111

TOP View



ALD-310012PJ125

ALD-414012PJ126 &
ALD-514012PJ134

Tolerance is ±0.5mm
unless otherwise specified.
Unit in mm
Mass:22g max.

any parts and patterning inhibit area
except GND pattern.

For Additional Information, please visit
us.tdk-lambda.com/lp/products/ald-series.htm

