

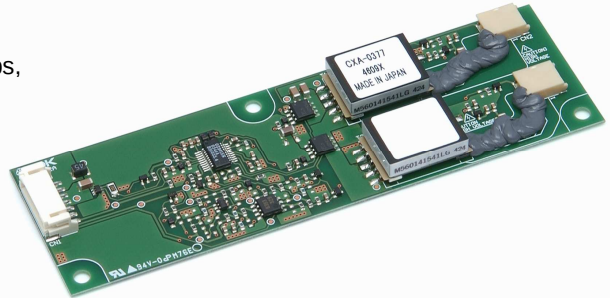
DC-AC INVERTER UNIT

CXA-0377(R) (10 W DUAL OUTPUTS WITH DIMMING FUNCTION)**(PRELIMINARY INFORMATION)****DESCRIPTION :**

This low profile DC to AC Inverter is developed for Dual lamps, low power LCD back-light.

APPLICABLE LCD:

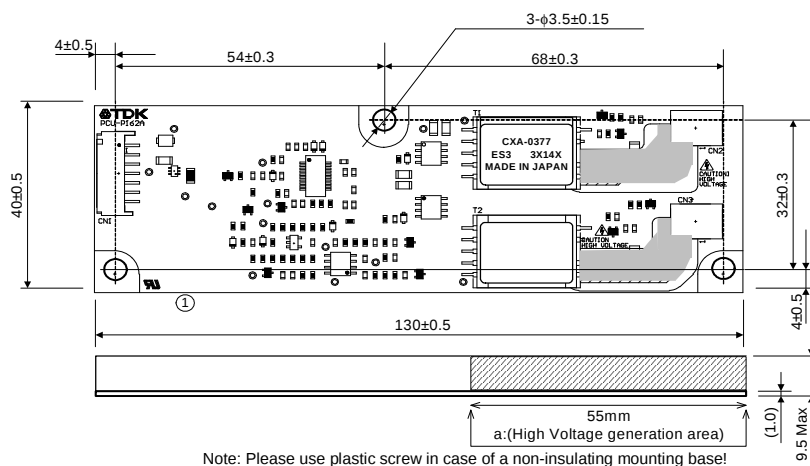
LQ150X1LGN2 (SHARP)
LQ150X1LGN2A (SHARP)
6.4 to 15 inches Dual lamp type
Lamp Voltage 1.000 Vrms
Lamp Current 4.5 mArms
Lamp Start Up Voltage 2000 Vrms (Vin : 12.0 Vdc)

**FEATURES :**

Dimming function PWM
Remote ON/OFF
Open Lamp Detection
RoHS compliant (R)

TEMPERATURE & HUMIDITY :

Operating Temperature Range 0°C ~ +70°C
Storage Temperature Range -30°C ~ +85°C
Humidity 95 %RH max

DIMENSIONS : L x W x H 130 x 40 x 11 mm

Unit : mm
Weight :50 (g) typ.

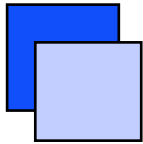
Components

No.	Part Description	Qty.	Material	Note
1	PWB	1	Composite (CEM-3)	t=1mm
2	Connector CN1	1	S7-PH-SM3	JST or equal
3	Connector CN2	2	SM02B-BHSS-1-TB	JST or equal

Power Systems – The Power Solution

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(PRELIMINARY INFORMATION)

Input side CN1:

Pin No.	Symbols	Ratings
CN 1-1~2	Vin	10.8~13.2 Vdc
CN 1-3~4	GND	
CN 1-5	Vbr / Rbr	0 ~ 2.5 Vdc / 0 ~ 10 k Ω
CN 1-6	Vst	0 / 5.0 Vdc
CN 1-7	Vrmt	0~0.4Vdc : Off 2.5~Vin : On

Output side CN2

Pin No.	Symbols	Ratings
CN 2-1	Vhigh	1000 Vrms (4.5 mArms)
CN 2-2	Vlow	(GND)

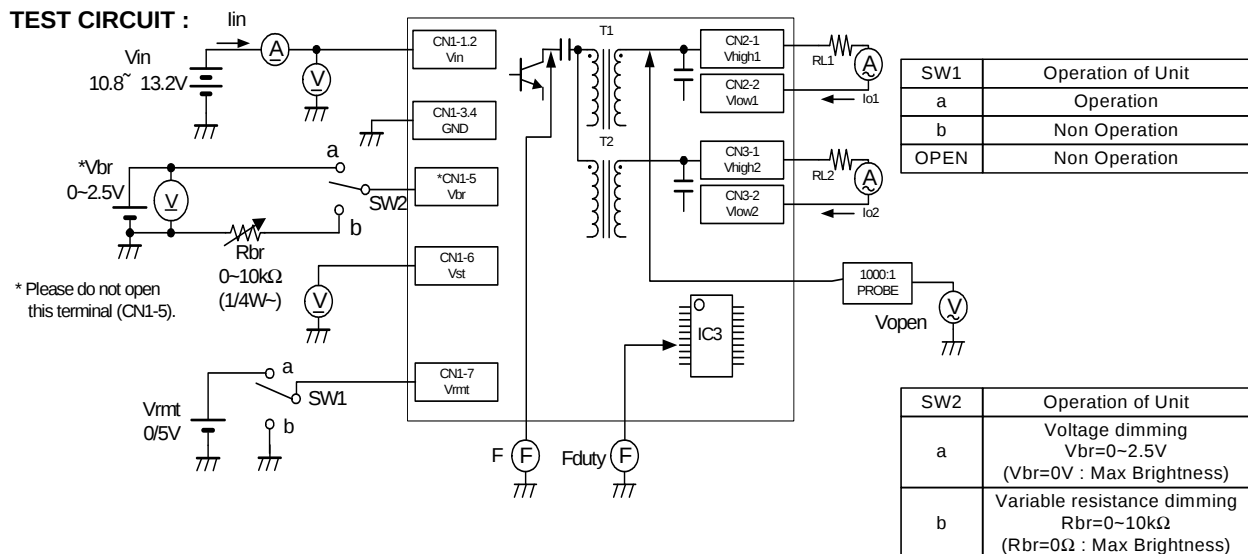
Output side CN3

Pin No.	Symbols	Ratings
CN 3-1	Vhigh	1000 Vrms (4.5 mArms)
CN 3-2	Vlow	(GND)

ELECTRICAL CHARACTERISTICS :

Parameters	Symbols	Conditions				Specification			Unit	Note
		Vin (V)	Vrmt (V)	Vbr (V)	Tu (°C)	Min.	Typ.	Max.		
Output Current	Iout1	12.0 $\pm$ 1.2	5 $\pm$ 0.25	0	0 ~ +70	3.5	4.5	5.5	mArms	Max
Output Current	Iout2	12.0 $\pm$ 1.2	5 $\pm$ 0.25	2.5	0 ~ +70	1.5	2.5	3.5	mArms	Min
Input Current	Iin1	12.0 $\pm$ 1.2	5 $\pm$ 0.25	0	0 ~ +70	-	0.8	1.0	Adc	
Input Current	Iin2	12.0 $\pm$ 1.2	0	0 ~ 2.5	0 ~ +70	-	-	1	mAdc	Remote Off
Frequency	F1	12.0 $\pm$ 1.2	5 $\pm$ 0.25	0	0 ~ +70	60	65	70	kHz	
Frequency (Duty)	F2	12.0 $\pm$ 1.2	5 $\pm$ 0.25	2.5	0 ~ +70	-	240	-	Hz	
Open Voltage	Vopen	10.8	5 $\pm$ 0.25	0	0 ~ +70	2.000	-	-	Vrms	
Alarm Signal	Vst	12.0 $\pm$ 1.2	5 $\pm$ 0.25	0	0 ~ +70	4.0	5.0	5.5	Vdc	RL1open
		12.0 $\pm$ 1.2	5 $\pm$ 0.25	0	0 ~ +70	4.0	5.0	5.5	Vdc	RL2 open
		12.0 $\pm$ 1.2	5 $\pm$ 0.25	0	0 ~ +70	-	0	0.5	Vdc	Normal

Note 1 : Please keep minimum of 2mm clearance (all directions) between inverter high voltage area as marked on mechanical drawing and any conductors.

TEST CIRCUIT :**Power Systems – The Power Solution**

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