SPECIFICATIONS

CCFL BACKLIGHT INVERTER
GH025A

REV. 1/PS
VERS. 04/02
INVERTER GH025A

1. APPLICATION

This document specifies the detailed product requirements of Inverter GH025A manufactured by Green C & C Tech.

2. SUITABLE LOAD

LCD-Module: 10.4” 1 lamp TFT LCD

3. ELECTRICAL CHARACTERISTICS

3.1 Absolute Maximum Ratings

Item	Symbol	Spec	Unit
Input voltage 1	Vin1	8 ~ 20	V
Input voltage 2	Vin2	4.9 ~ 5.1	V
Operating Temperature	Top	0 ~ 50	°C
Storage Temperature	Tstg	- 30 ~ 80	°C
Relative Humidity	RH	80	%

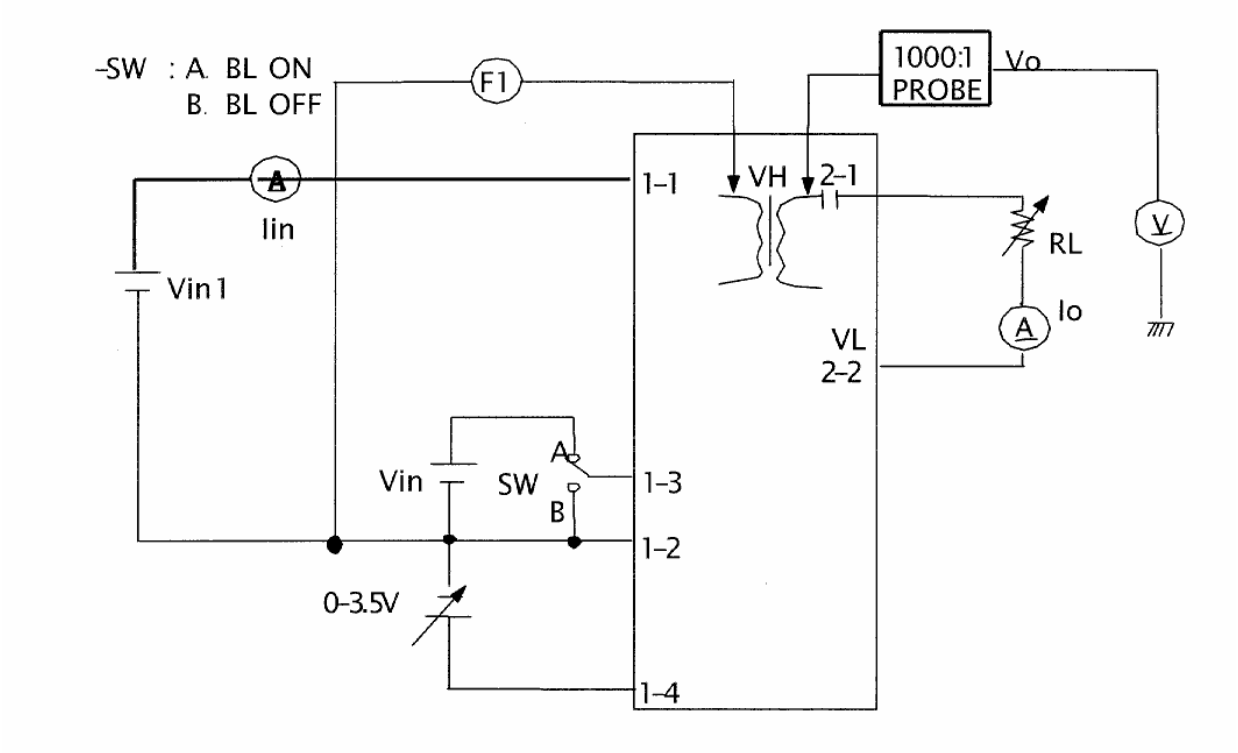
3.2 Control Signal

Pin No.	Symbol	Status	Action	Remarks
CN1 # 3	BKLT_ON	HIGH	LAMP (CCFL) - ON	2.4 ~ 5.25V
		LOW	LAMP (CCFL) - OFF	0.8V max.

3.3 Output Characteristics

Item	Symbol	Condition			Specification			Unit
		Vin1 (V) (DC – IN)	BRT-ADJ	RL (?)	Min	Typ	Max	
OUTPUT CURRENT	Io (max)	12	0V	80 ~ 0.5	6.0	6.5	7.0	mArms
	Io (min)	12	5V	80 ~ 0.5	2.0	2.5	3	
INPUT CURRENT	Iin	12	0V	80 ~ 0.5	0.3	0.4	0.5	ADC
FREQUENCY	F	12	0V	80 ~ 0.5	45	50	55	KHz
OPEN OUTPUT VOLTAGE	Vo	12	0V	-	1.2	-	1.9	kVrms

3.4 Test Circuit



4. INTERFACE

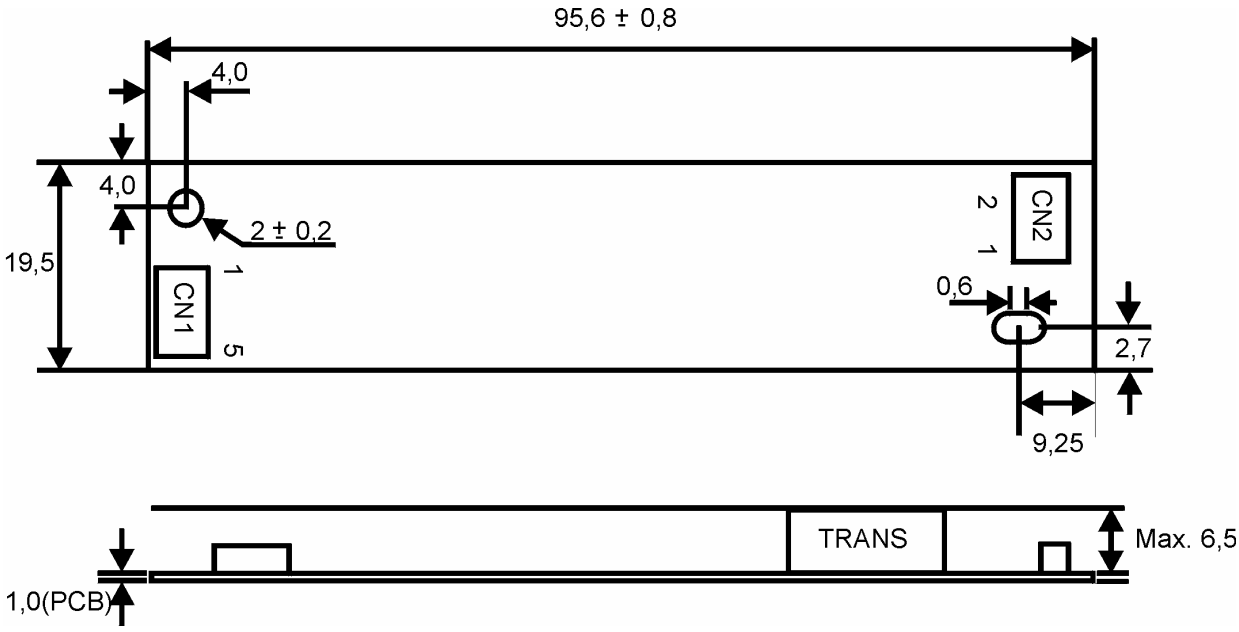
4.1 CN1 Connector: 53261 – 0590 (Molex) or equivalent

Pin No.	Symbol	Remark
4	BRT_ADJ	0 ~ 3.5V
2	GND	GND
3	BL ON/OFF	CCFL Drive SIGNAL (Active HIGH)
1	DC – In (V in)	DC Input Power (12V)
5	N.C	

4.2 CN3-1 Connector: SM02B– BHSS or equivalent

Pin No.	Symbol	Remark
1	HOT	HIGH
2	N.C	
3	N.C	
4	COLD	LOW

5. APPEARANCE (Unit: mm)



6. NOTATION OF LOT NUMBER

Marking: Bottom of PCB

GH025A YYWWMMM

GH025A:	Model Name
YY:	Year of Product 91,'92,'93,'94,…'00,'01
WW:	Week of Product 01,02,03,04,...54,55
MMMM:	Serial Number 0001,0002……..9998,9999

7. RELIABILITY TEST SPEC

No.	Item	Condition and Method
1	High Temperature Storage Test	Temp: 70°C Duration: 500 hrs
2	Low Temperature Storage Test	Temp: -30°C Duration: 500 hrs
3	High Temperature High Humidity Storage	Temp: 40°C Humid: 95%RH Duration: 500 hrs
4	High Temperature High Humidity Operation Test	Temp: 40°C Humid: 95%RH Duration: 1000 hrs
5	Thermal Shock Test	Temp. –30°C ? 70°C, 250 cycle (30min) (30min)
6	Vibration Test	Amplitude: 1.5 mm Frequency: 10 ~ 55Hz Position: three perpendicular planes Duration: 1000 hrs
7	High Temperature Operation Test	Temp: 50°C Duration: 72 hrs
8	High Temperature Operation Test	Temp: 0°C Duration: 72 hrs