

TO :

DATE : 2002.07.15

## DOCUMENTATION FOR APPROVAL

PRODUCT : CCFL BACKLIGHT INVERTER

MODEL NAME : GH053A(A2)

GCCT NAME : GCCT053AB

APPROVAL	CHECKED	WRITTEN

PLEASE RETURN ONE DOCUMENT AFTER APPROVED SIGN.

GREEN C&C TECH	INVERTER SPECIFICATION GH053A(A2)	R&D DATE : 2002.07.15
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## 1. APPLICATION

This Document Specified The Detailed Product Requirements of Inverter GH053A(A2)

## 2. SUITABLE LOAD

LCD MODULE : SAMSUNG 15", 17",19" 4LAMP TFT LCD

## 3. ELECTRICAL CHARACTERISTICS

### 3-1. Absolute Maximum Ratings

ITEM	SYMBOL	SPEC	UNIT	REMARKS
INPUT VOLTAGE1	Vin1	11.5~12.5	V	
INPUT VOLTAGE2	Vin2	4.9~5.1	V	
OPERATING TEMPERATURE	Top	0 50		
STORAGE TEMPERATURE	Tstg	-30 80		
RELATIVE HUMIDITY	RH	90	%	

### 3-2. Control Signal

PIN NO.	SYMBOL	STATUS	ACTION	REMARKS
CN1 #4	BKLT_ON	HIGH	LAMP(CCFL)-ON	2.4~5.25V
		LOW	LAMP(CCFL)-OFF	0.8V MAX

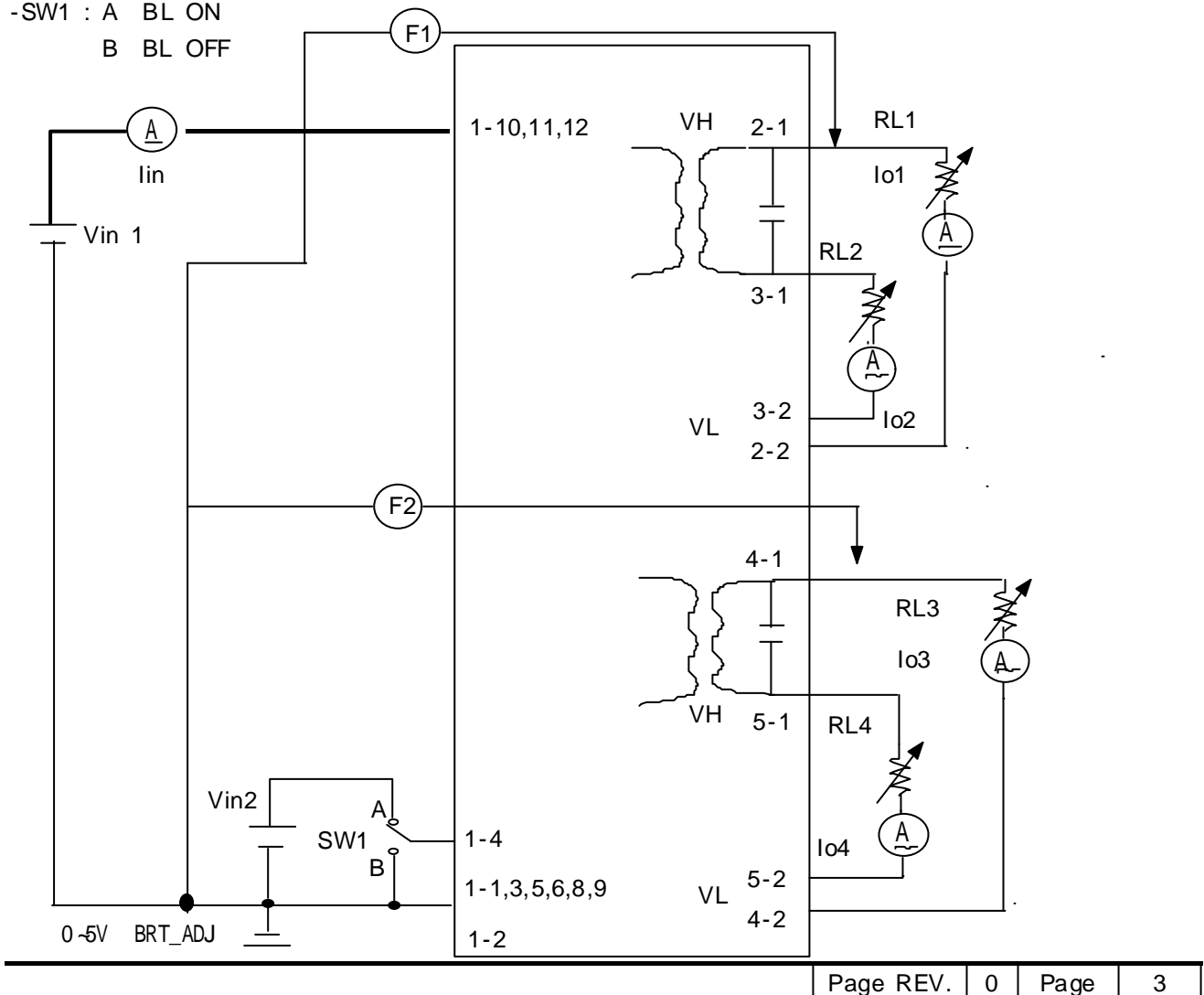
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### 3-3. Output Characteristics

ITEM	SYMBOL	CONDITION			SPECIFICATION			UNIT
		Vin1(V) (DC-IN)	BRT- ADJ	RL1,2(kΩ) RL3,4(kΩ)	MIN	TYP	MAX	
OUTPUT CURRENT	Io1,2(max)	12	0V	80 ±0.5	6.4	6.5	7.0	mArms
	Io1,2(min)	12	5V	80 ±0.5	2.5	3.0	3.5	
	Io3,4(max)	12	0V	80 ±0.5	6.4	6.5	7.0	
	Io3,4(min)	12	5V	80 ±0.5	2.5	3.0	3.5	
INPUT CURRENT	Iin(1)	12	0V	80 ±0.5	1.7	2.0	2.3	ADC
FREQUENCY	F(1)	12	0V	80 ±0.5	49	54	59	KHz
FREQUENCY	F(2)	12	0V	80 ±0.5	49	54	59	KHz

### 3.4 Test Circuit

-SW1 : A BL ON  
B BL OFF



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#### 4. INTERFACE

##### 4.1 CN1 CONNECTOR : 53261-1290

PIN NO	SYMBOL	REMARK
2	BRT_ADJ	0 ~ 5V
1,3,5,6,8,9	GND	GND
4	BL ON/OFF	CCFL Drive SIGNAL(Active HIGHT)
7	N.C	
10,11,12	DC-IN(Vin)	DC INPUT Power (12V)

##### 4.2 CN2 CONNECTOR : SM02B-BHSS-1-TB(JST)

PIN NO.	SYMBOL	REMARK
1	HOT	HIGH
2	COLD	LOW

##### 4.3 CN3 CONNECTOR : SM02B-BHSS-1-TB(JST)

PIN NO.	SYMBOL	REMARK
1	HOT	HIGH
2	COLD	LOW

##### 4.4 CN4 CONNECTOR : SM02B-BHSS-1-TB(JST)

PIN NO.	SYMBOL	REMARK
1	HOT	HIGH
2	COLD	LOW

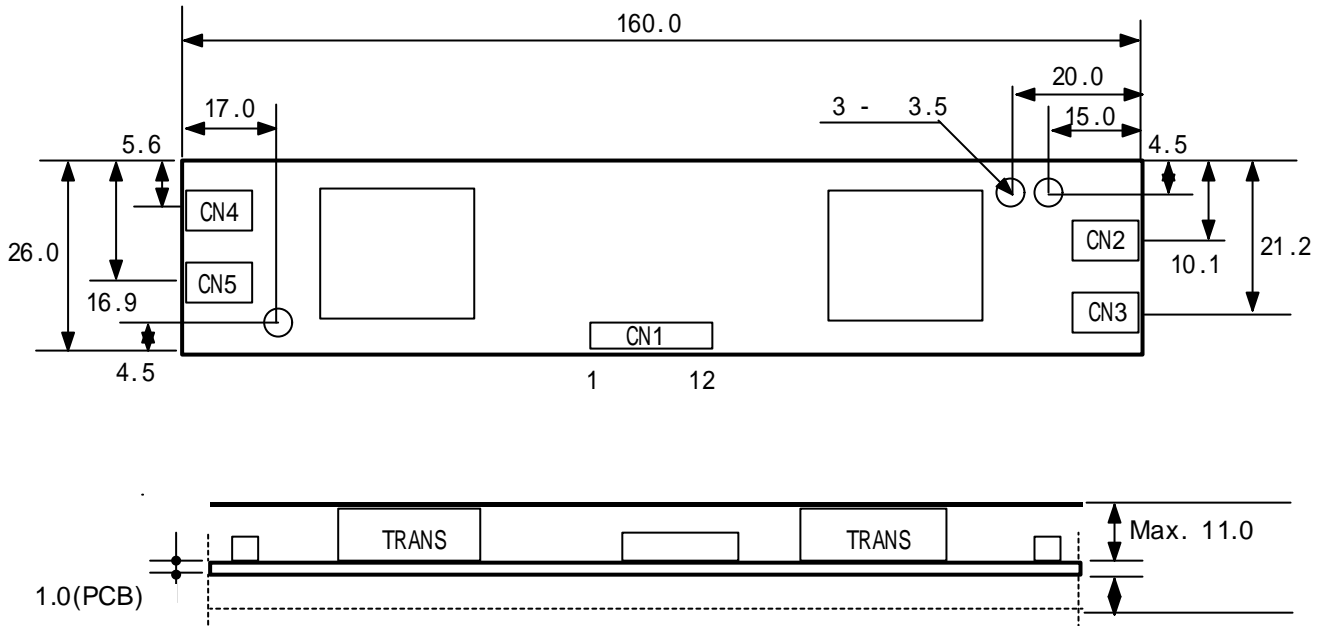
##### 4.5 CN5 CONNECTOR : SM02B-BHSS-1-TB(JST)

PIN NO.	SYMBOL	REMARK
1	HOT	HIGH
2	COLD	LOW

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5. APPEARANCE (UNIT : mm)

(TOLERANCE: ±0.2mm)



6. NOTATION OF LOT NUMBER

MARKING : BOTTOM OF PCB.

GH053A(A2)
YYWWMMM

GH053A(A2) : 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