

INVERTER SPEC

PRODUCT : CCFL BACKLIGHT INVERTER

MODEL NAME : I N V 4 L - 2 C

WRITTEN	CHECKED	APPROVAL

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Vertex LCD Inc.

1. APPLICATION

This Spec. Sheet applies to 10.4" & 12.1" LCD Monitor Inverter apparatus which is produced and sold for DIGITAL DEVICE

2. SUITABLE LOAD

LCD MODULE : 10.4" & 12.1" "L"Type 4 LAMP TFT LCD

3. ELECTRICAL CHARACTERISTICS

1)Absolute Maximum Ratings

ITEM	SYMBOL	SPEC	UNIT	REMARKS
INPUT VOLTAGE1	Vin 1	11.5~ 12.5	V	
INPUT VOLTAGE2	Vin 2	4.8 ~ 5.2	V	
OPERATING TEMPERATURE	Top	0 ~ 50	C	
STORAGE TEMPERATURE	Tstg	-20 ~ 80	C	
RELATIVE HUMIDITY	RH	90	%	

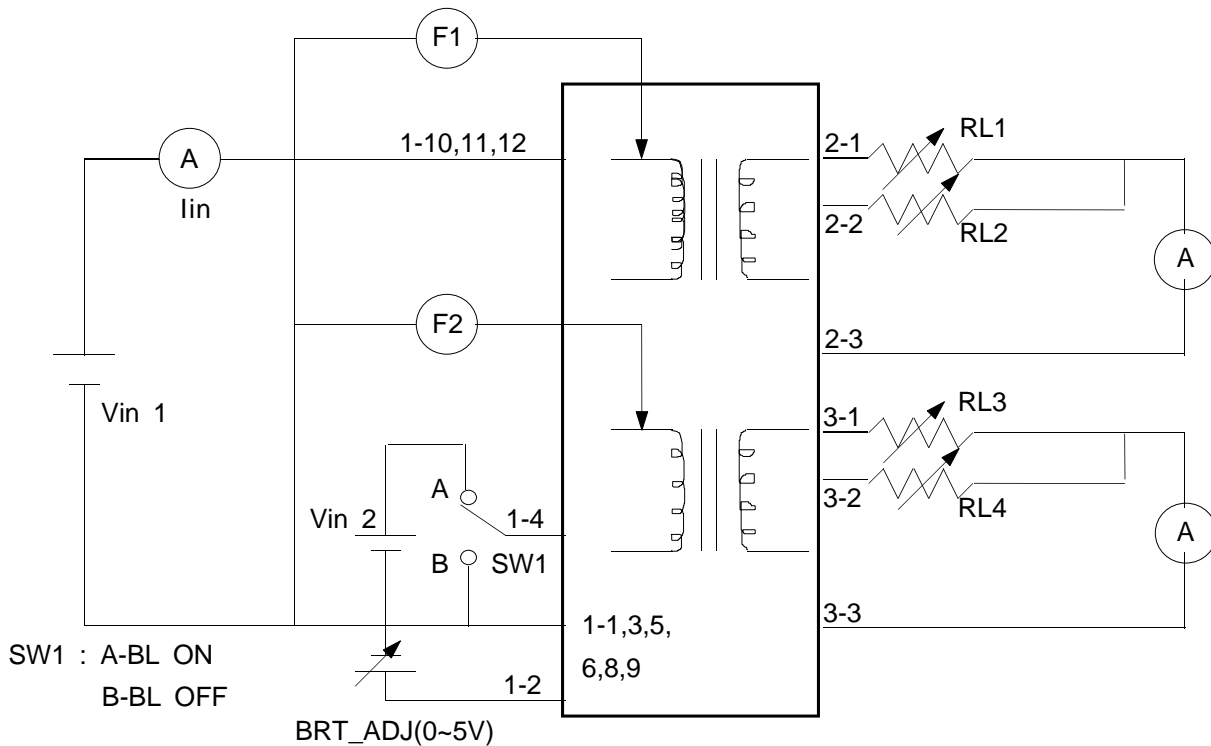
2)Control Signal

PIN NO	SYMBOL	STATUS	ACTION	REMARKS
CN1 #4	BKLT_ON	HIGH	LAMP(CCFL)-ON	2.0V~5.0V
		LOW	LAMP(CCFL)-OFF	0 ~ 0.3V

3)Output Characteristics

ITEM	SYMB OL	CONDITION			SPECIFICATION			UNIT
		Vin1(V) (DC-IN)	BRT- ADJ	RL (Ref)	MIN	TYP	MAX	
OUTPUT CURRENT	Io2,3 (max)	11~13	0V	80+/-0.5	5.5	6.0	6.5	mArms
	Io2,3 (min)	11~13	5V	80+/-0.5	2.5	3.0	3.5	
	Io4,5 (max)	11~13	0V	80+/-0.5	5.5	6.0	6.5	
	Io4,5 (min)	11~13	5V	80+/-0.5	2.5	3.0	3.5	
INPUT CURRENT	Iin	12	0V	80+/-0.5	1.3	1.6	1.9	ADC
FREQUENCY	F1	12	0V	80+/-0.5	45	50	55	KHz
FREQUENCY	F2	12	0V	80+/-0.5	45	50	55	KHz
DIMMING FREQUENCY	F_D	12	5V	80+/-0.5	100	200	300	Hz

4)Test Circuit



4. INTERFACE

- 1) CN1 CONNECTOR : 12505WR-12A00(YEONHO)
or 53261-1290(MOLEX)

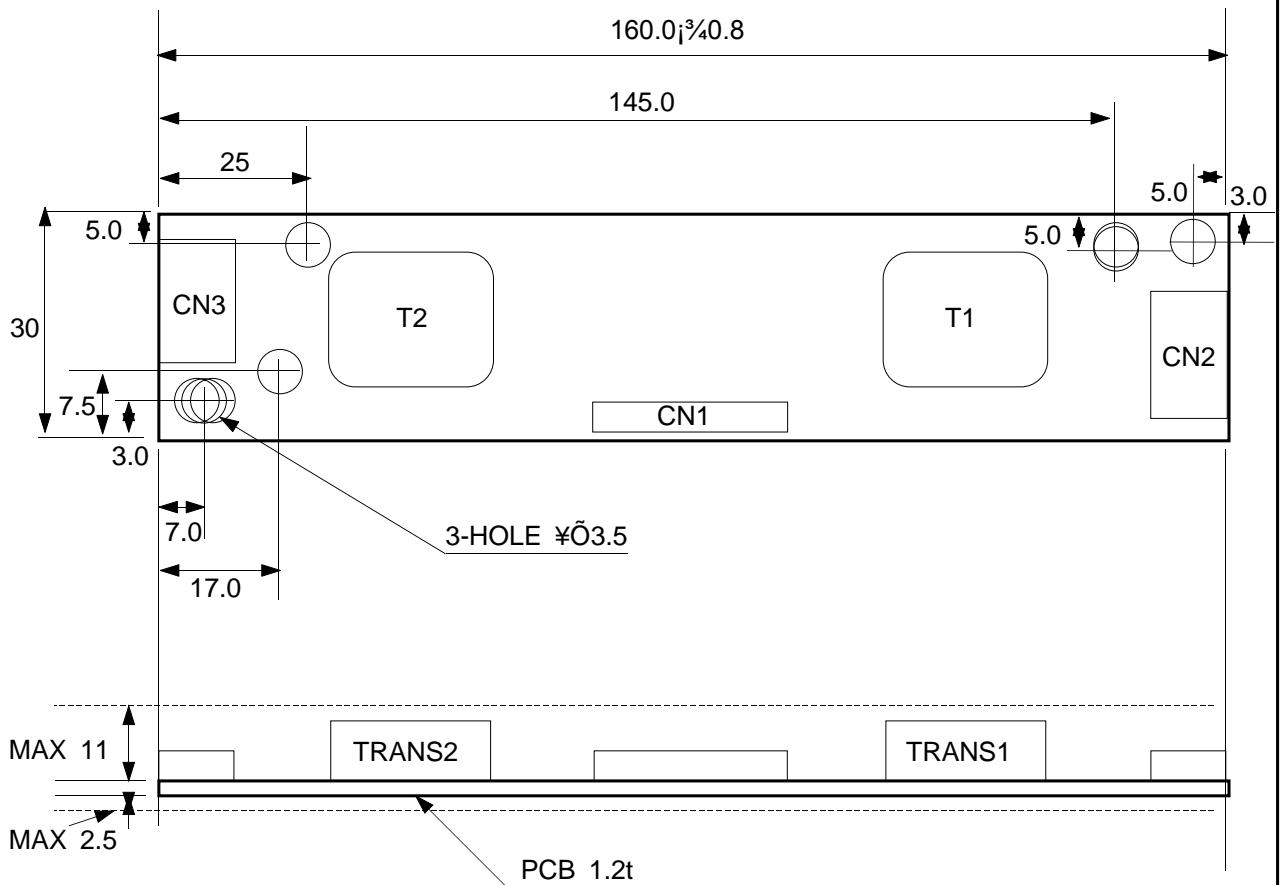
PIN NO	SYMBOL	REMARK
10,11,12	DC-IN(Vin)	DC INPUT POWER(12V)
7	N.C	NO CONNECTION
4	BL ON/OFF	CCFL DRIVE SIGNAL
2	BRT_ADJ	0 ~ 5V
1,3,5,6,8,9	GND	GND

- 2) CN2 CONNECTOR : 20015WR-07A00(YEONHO)
or SM04(4.0)-BHS-1-TB(JST)

PIN NO	SYMBOL	REMARK
1	HOT	HIGH
2	HOT	HIGH
3	COLD	LOW

MODEL	INV4L-2C
REV.	0
DATE	2004.02.05

5. OUTLINE DIMENSION(UNIT:mm)



TOLERANCE : + / - 0.3m