

INVERTER SPEC

■ PRODUCT : CCFL BACKLIGHT INVERTER

■ MODEL NAME : AT-0104-5V2P Rev.E

WRITTEN	CHECKED	APPROVAL



<h1>SPECIFICATION</h1>	MODEL	AT-0104
	REV.	E
	DATE	2007. 4. 11

1. APPLICATION

This document specified the detailed product requirements of inverter AT-0104-5V2P

This is a RoHS Directive compliant product.

(RoHS Directive compliant: This means that, except for exempted applications, lead, cadmium, mercury, hexavalent chromium, and specified bromite fire retardant materials of PBB and PBDE are not used based on EU Directive 2002/95/EC.)

2. SUITABLE LOAD

LCD MODULE : 6.2",6.4" 1LAMP LCD PANEL ETC...

3. ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	SPEC	UNIT	REMARKS
INPUT SUPPLY VOLTAGE	Vin 1	4.7 ~ 5.5	V	
ON/OFF CONTROL VOLTAGE	Vin 2	0 ~ 6.0	V	
DIMMING CONTROL VOLTAGE	BRT_ADJ	0 ~ 3.5	V	
OPERATING TEMPERATURE	Top	-20 ~ 60	℃	
STORAGE TEMPERATURE	Tstg	-30 ~ 80	℃	
RELATIVE HUMIDITY	RH	90	%	

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4. ELECTRICAL CHARACTERISTICS

1) Input Characteristics

ITEM	SYMBOL	ACTION	SPECIFICATION			UNIT
			MIN	TYP	MAX	
INPUT SUPPLY VOLTAGE	V _{in 1}		4.8	5.0	5.2	Vdc
INPUT CURRENT	I _{in}		0.60	0.70	0.80	Adc
ON/OFF CONTROL VOLTAGE	V _{in 2}	BKLT_ON	2.0 ~ 5.0			Vdc
		BKLT_OFF	0 ~ 0.3			
DIMMING CONTROL VOLTAGE	BRT_ADJ	BRT_MAX	3.3			
		BRT_MIN	0			

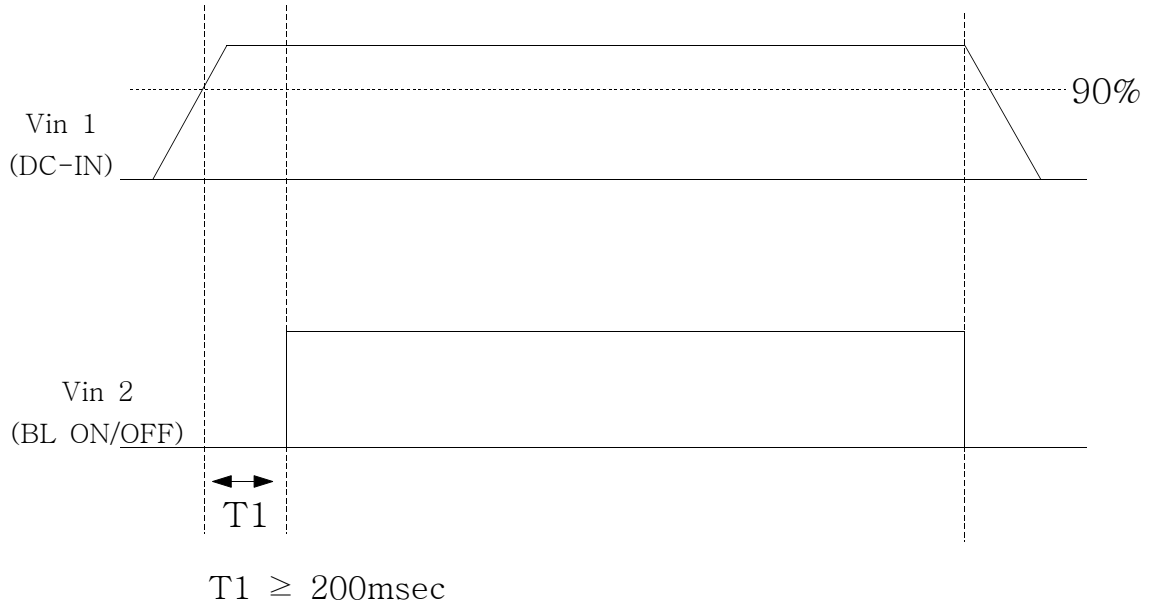
2) Output Characteristics

ITEM	SYMBOL	CONDITION			SPECIFICATION			UNIT
		V _{in1} (Vdc)	BRT- ADJ	RL(k Ω) (Ref)	MIN	TYP	MAX	
OUTPUT CURRENT	I _{out1} (max)	5	3.3V	80 \pm 0.5	4.0	4.5	5.0	mArms
	I _{out1} (min)	5	0V	80 \pm 0.5	1.5	2.0	2.5	
FREQUENCY	F1	5	3.3V	80 \pm 0.5	40	50	60	KHz
DIMMING FREQUENCY	F _D	5	0V	80 \pm 0.5	350	450	550	Hz

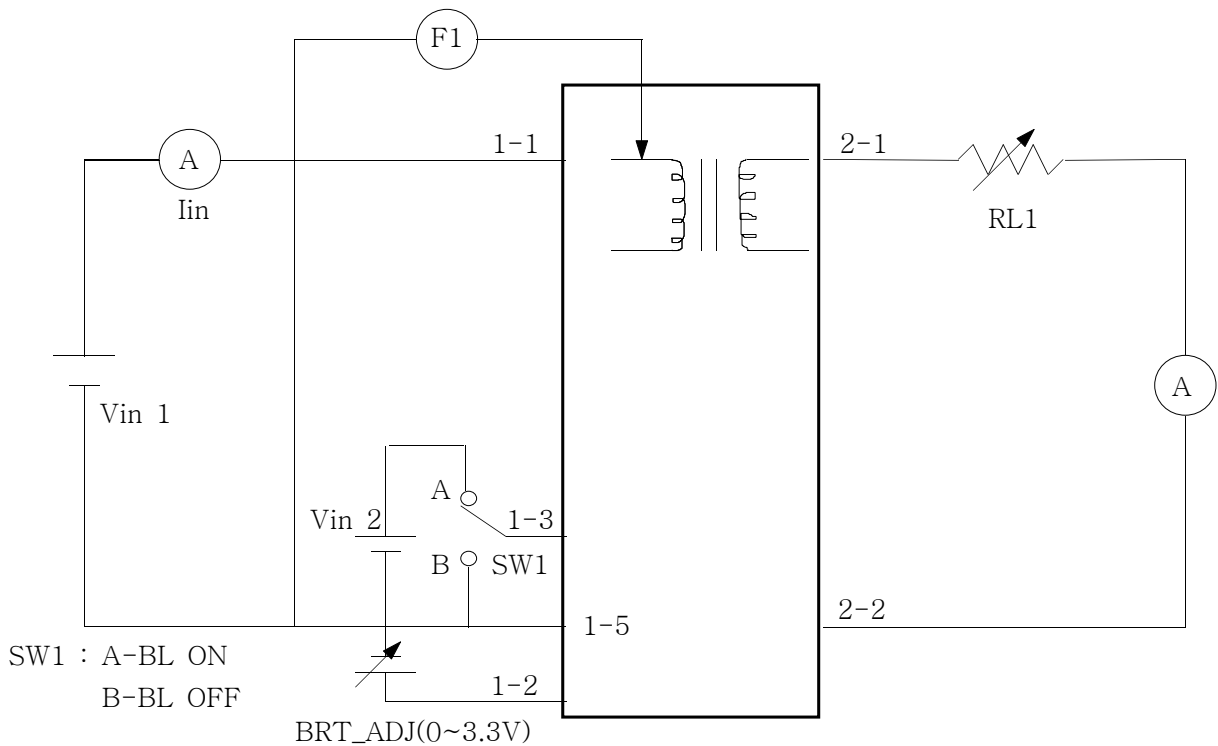
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3) Sequence for inverter



4) Test Circuit



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4. INTERFACE

- 1) CN1 CONNECTOR : 12505WR-05A00(P)(YEONHO etc.)
 or A1250WRA-S-05P(JOINTTECH)
 or JE204-D1T-05(JAEEUN)

PIN NO	SYMBOL	REMARK
1	DC-IN(Vin)	DC INPUT POWER(5V)
2	BRT_ADJ	0V(MIN) ~ 3.3V(MAX)
3	BL ON/OFF	CCFL DRIVE SIGNAL(5V/0V)
4	DC-IN	Vcc(5V)
5	GND	GND

- 2) CN2 CONNECTOR : 35001WR-02A00(P)(YEONHO etc.)
 or A3500WR-S-2P(JOINTTECH)
 or SM02B-BHSS-1-TB(JST)
 or JE207-D2T-02(JAEEUN)

PIN NO	SYMBOL	REMARK
1	HOT	HIGH
2	COLD	LOW

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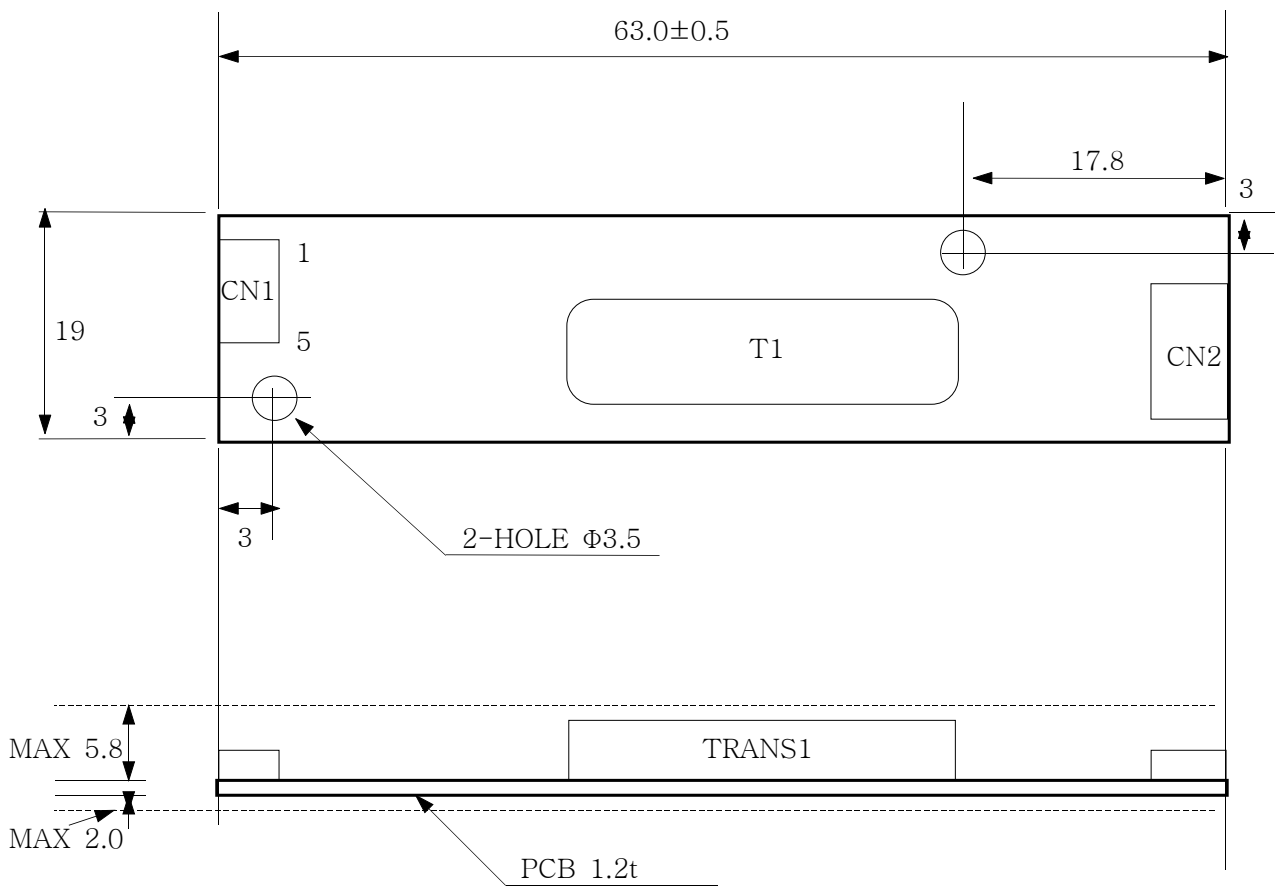
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5. APPEARANCE (UNIT:mm)



TOLERANCE : $\pm 0.3\text{mm}$