

SPECIFICATION

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1. SPECIFICATION

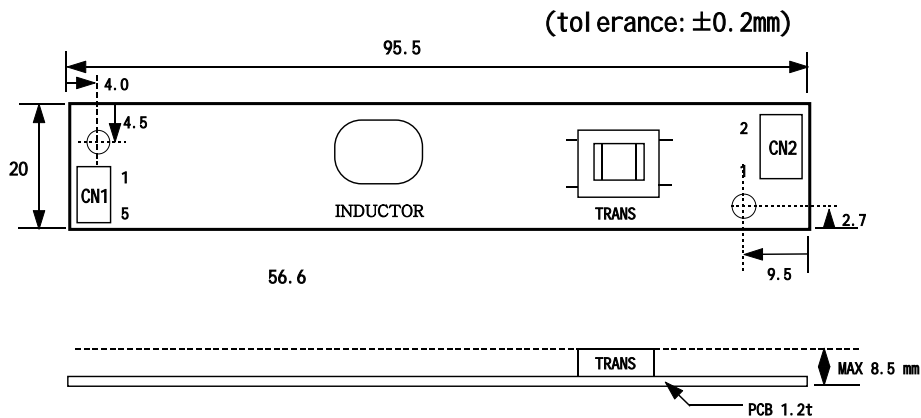
1-1) Scope

This specification is for inverter of 10.4 ~ 14".1, 1CCFL LCD module .
 (Applicable panel : HD - HT12X11, SAMSUNG 10.4~14.1"
 UNIPAC 8.4~10.4", PVI 10.4" LCD MODULE etc.)

1-2) Introduction

This inverter is a SMPS using DC input voltage (DC 10~13.2V)
 At DC input voltage 12V, AC output voltage is above AC 1.0KV RMS.
 Inverter can control output current, then controls brightness of
 CCFL in LCD module. (for 1 Lamp)

1-3) Dimensions



1-4) Interface (INPUT/OUTPUT)

1-4-1) INPUT : CN1 CONNECTOR : 53261-0590 (MOLEX)
 12505WR-05 (YEONHO KOREA)

PIN NO	SYMBOL	REMARK
CN1-1	V _{in}	DC INPUT (10~13.2V)
CN1-2	GND	GND
CN1-3	ON/OFF	CCFL ON/OFF (0V: "OFF", 5V: "ON")
CN1-4	BRT_ADJ	Brightness Control (0~3V)
CN1-5	N. C	No Connection

1-4-2)OUTPUT : CN2 CONNECTOR : SM02B-BHSS-1-TB (JST)
 35001WR-02 (YEONHO KOREA)

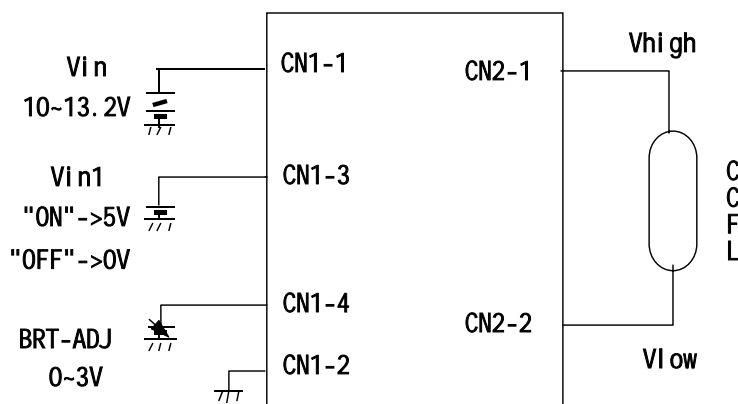
PIN NO	SYMBOL	REMARK
CN2-1	Hot	High Voltage
CN2-2	Cold	Low Voltage (Current Feedback)

1-5)Electrical characteristics

ITEM	SYMBOL	CONDITION			SPEC			UNIT
		Vi n(V)	Vi n1(V) ON/OFF	BRT- ADJ	MIN	TYP	MAX	
Output current	Io(Max)	10~13.2	5	0V (MAX)	5.5	6.0	6.5	mArms
	Io(Min)	10~13.2	5	3V (MIN)	2.5	3.0	3.5	
Input current	Iin	10	5	0V (MAX)	-	0.46	0.51	ADC
	Iin	12	5	0V (MAX)	-	0.39	0.44	
Frequency	Fo	12	5	0V (MAX)	50	55	60	KHz
Open voltage	Vo	12	5	0V (MAX)	1.0	-	-	KVrms
Inrush current	Ish	12	5	0V	-	-	1.5	ADC
Dimming range					25%		100%	

NOTE ## See test sheet if you want more data

1-5-1)Test circuit



1-6) Environmental conditions

1-6-1) Operating temperature : 0°C~50°C , Storage temperature : -20°C~70°C

1-6-2) Operating humidity : 20%~80% , Storage humidity : 10%~90%

1-6-3) Burn-In test

Inverter must be satisfied all specifications after that is operated during MIN 8 hours (full load and 40±5°C) at DC input voltage 10V.

1-7) Lot marking

