

DC-AC INVERTER UNIT

CXA-0379(R) (30 W SIXFOLD OUTPUTS WITH DIMMING FUNCTION)

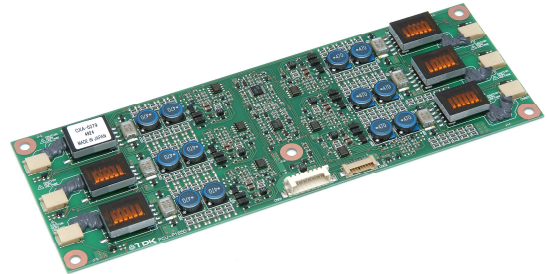
(PRELIMINARY INFORMATION)

DESCRIPTION :

This low profile DC to AC Inverter is developed for Sixfold lamps, low power LCD back-light.

APPLICABLE LCD:

6.4 to 15 inches Sixfold lamp type
Lamp Voltage 790 Vrms
Lamp Current 6.5 mArms
Lamp Start Up Voltage 1.300 Vrms (Vin : 12.0 Vdc)



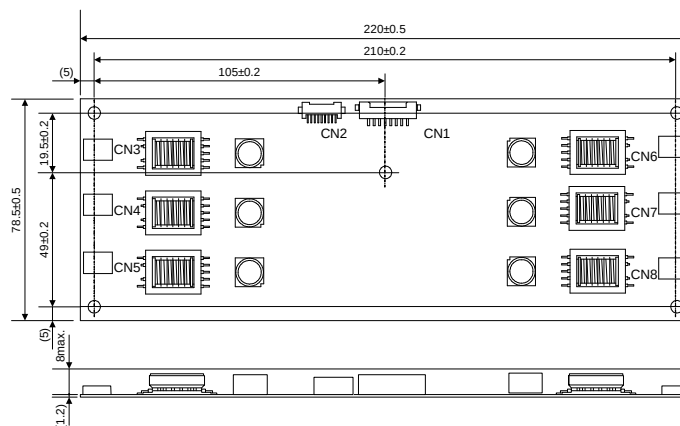
FEATURES :

Dimming function
Remote ON/OFF
Open Lamp Detection
RoHS compliant (R)

TEMPERATURE & HUMDITY :

Operating Temperature Range 0°C ~ +70°C
Storage Temperature Range -30°C ~ +85°C
Humidity 95 %RH max

DIMENSIONS : L x W x H 220 x 79 x 9,2 mm



Unit : mm
Weight :50 (g) typ.

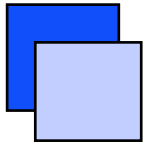
Components

No.	Part Discription	Qty.	Material	Note
1	PWB	1	Conposite (CEM-3)	t=1mm
2	Connector CN1	1	DF3-8P-2H	HRS or equal
3	Connector CN2	1	IL-Z9PL-SMTY	JAE or equal
4	Connector CN3~CN8	6	SM02B-BHSS-1-TB	JST or equal

Power Systems – The Power Solution

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Pin No.	Symbols	Ratings
CN 2-1~2	GND	
CN 2-3	Vst	0 / 5.0 Vdc
CN 2-4	BRTC	0 / 5.0 Vdc
CN 2-5	BRTH	0 Vdc * ₁
CN 2-6	BRTL	0 ~ 1.0 Vdc or 0 ~ 10 kΩ * ₂
CN 2-7	B RTP	0 / 5.0 Vdc * ₃
CN 2-8	Hi/Lo	0 / 5.0 Vdc
CN 2-9	PWSEL	0 / 5.0 Vdc * ₄

Input side CN1:

Pin No.	Symbols	Ratings
CN 1-1~4	GND	
CN 1-5~8	Vin	11.4 ~ 12.6 Vdc

Output side CN3~CN8

Pin No.	Symbols	Ratings
CN x-1	Vhigh	790 Vrms (6.5 mArms)
CN x-2	Vlow	(GND)

Note:*₁ = Dimming pin –*₂ = Dimming pin +*₃ = PWM-Signal*₄ = PWM Signal Selection int. / ext.**ELECTRICAL CHARACTERISTICS :**

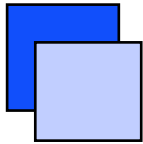
Parameters	Symbols	Conditions				Specification			Unit	Note
		Vin (V)	Vrmt (V)	Vbr (V)	Tu (°C)	Min.	Typ.	Max.		
Output Current 1	Iout1~6	12.0±0.6	5±0.05	0	0 ~ +60	6.0	6.5	7.0	mArms	Hi Max
Output Current 2	Iout1~6	12.0±0.6	5±0.05	5±0.05	0 ~ +60	5.5	6.0	6.5	mArms	Lo Max
Output Current 3	Iout1~6	12.0±0.6	5±0.05	0	0 ~ +60	2.3	3.3	4.3	mArms	Hi Min
Output Current 4	Iout1~6	12.0±0.6	5±0.05	5±0.05	0 ~ +60	2.0	3.0	4.0	mArms	Lo Min
Input Current	Iin1	12.0±0.6	5±0.05	0	0 ~ +60	-	3.5	5.3	Adc	Hi Max
Input Current	Iin2	12.0±0.6	0	0	0 ~ +60	-	0.1	1	mAdc	Remote Off
Frequency	F1	12.0±0.6	5±0.05	0	0 ~ +60	54	59	64	kHz	
Frequency (Duty)	F2	12.0±0.6	5±0.05	0	0 ~ +60	241	255	269	Hz	
Alarm Signal	Vst	12.0±0.6	5±0.05	0	0 ~ +60	0.0	0.1	0.5	Vdc	
		12.0±0.6	5±0.05	0	0 ~ +60	4.5	5.1	5.5	Vdc	One lamp open

Note 1 : Please keep minimum of 2mm clearance (all directions) between inverter high voltage area as marked on mechanical drawing and any conductors.

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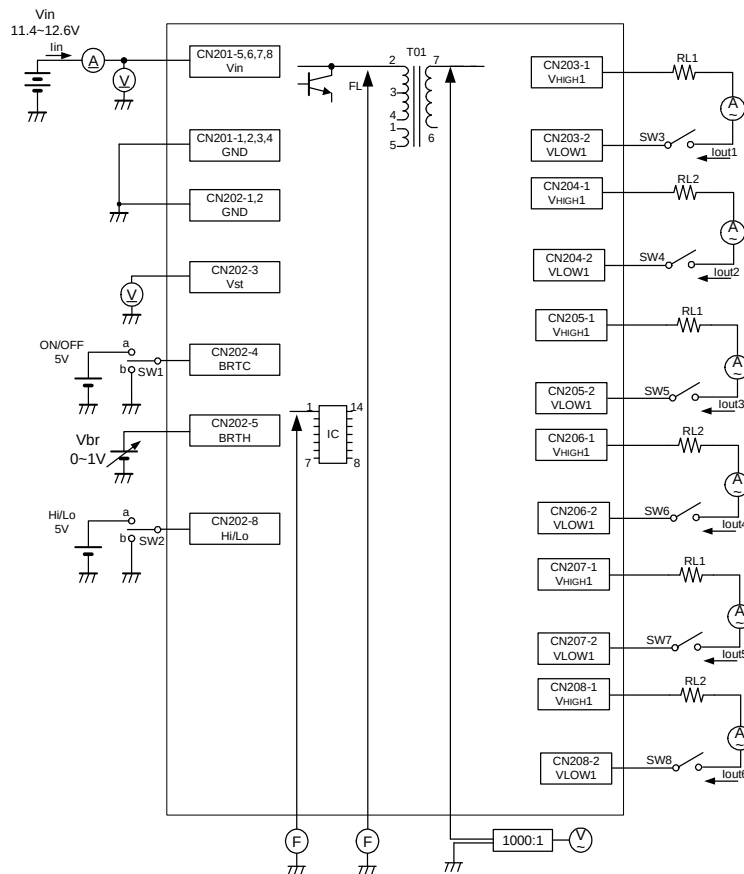


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TEST CIRCUIT :



SW1	Operation of unit
a	Operation
b	Non operation
Open	Operation
SW2	Operation of unit
a	Lo mode
b	Hi mode
Open	Lo mode

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