

CXA-0317 (18W QUAD OUTPUTS WITH DIMMING FUNCTION)

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DESCRIPTION :

This low profile DC to AC Inverter is developed for quad lamps LCD back-light.
Application includes LCD Monitor and Industrial PC.

Applicable LCD; 15 inch quad lamp type

Lamp Voltage 660Vrms

Lamp Current 7mA rms

Lamp Start Up Voltage 1600Vrms (Vin : 12V)

FEATURES :

PWM dimming

Current Feedback Circuit

Regulated output current

Silicon coating in High Voltage area



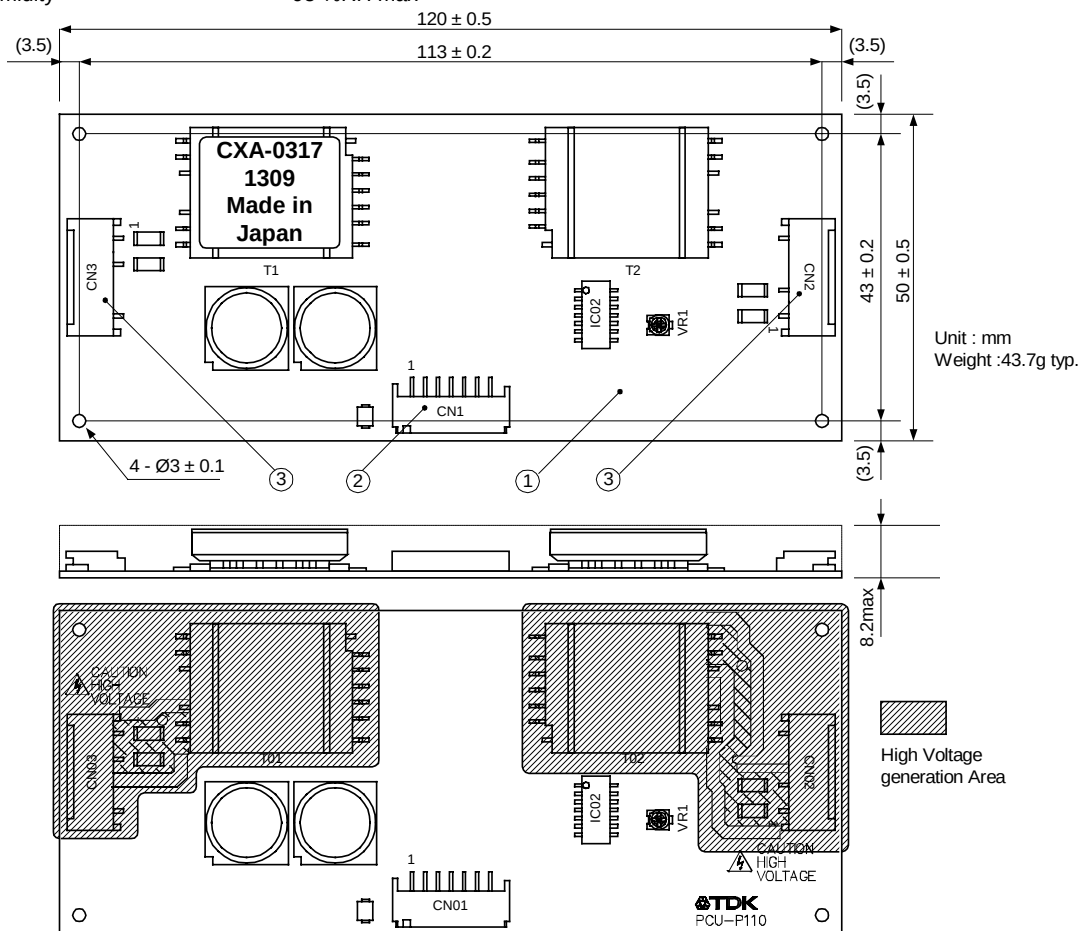
TEMPERATURE & HUMIDITY :

Operating Temperature Range 0 °C ~ +60 °C

Storage Temperature Range -30 °C ~ +85 °C

Humidity 95 %RH max

DIMENSIONS :



Note : Please use minimum of 2mm clearance (all directions) between inverter high voltage area (as marked above) and any conductors.

DC-AC INVERTER UNIT

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No.	Part Description	Qty.	Note
1	PWB	1	UL94V-0 t=1.0mm
2	Connector CN1	1	S7B-PH-SM3 (JST)
3	Connector CN2,CN3	2	SM03(7-D1)B-BHS-1 (JST)

CN1 : 53261-0890 (Molex)

Pin	Symbol	Note
CN1-1	Vin	10.8 ~ 13.2V
CN1-2		
CN1-3	GND	0 V
CN1-4		
CN1-5	Vbr	0 ~ 2.5V
CN1-6	N.C.	-
CN1-7	Vrmt	0 ~ 0.4V : OFF 2.5V ~ Vin : ON

CN2 : SM03(7-D1)B-BHS-1 (JST)

Pin	Symbol	Note
CN2-1	Vhigh1	660Vrms (7mArms)
CN2-2	Vhigh2	660Vrms (7mArms)
CN2-3	N.C	-
CN2-4	Vlow1	(0.6V)

CN3 : SM03(7-D1)B-BHS-1 (JST)

Pin	Symbol	Note
CN3-1	Vhigh3	660Vrms (7mArms)
CN3-2	Vhigh4	660Vrms (7mArms)
CN3-3	N.C	-
CN3-4	Vlow2	(0.6V)

ELECTRICAL CHARACTERISTICS :

Parameters	Symbol	Conditions					Specifications			Unit	Note
		Vin (V)	Vrmt (V)	Vbr (V)	Ta (°C)	RL (kΩ)	min.	typ.	max.		
Output Current	Iout1 / Iout2	10.8	5 ± 0.05	0	23 ± 5	90	12.6	14.0	15.4	mArms	Max Brightness.
		12	5 ± 0.05	0	23 ± 5	90	12.6	14.0	15.4	mArms	
		13.2	5 ± 0.05	0	23 ± 5	90	12.6	14.0	15.4	mArms	
		12	5 ± 0.05	2.5 ± 0.05	23 ± 5	90	5	6.25	7.5	mArms	Min Brightness.
Input Current	Iin	10.8	5 ± 0.05	0	23 ± 5	90	-	1.75	2.5	Adc	
Frequency	FL	12	5 ± 0.05	0	23 ± 5	90	50	55	60	kHz	
Frequency (Duty)	Fduty	12	5 ± 0.05	0	23 ± 5	90	263	269	275	Hz	Adust by VR1
Open Voltage	Vopen	10.8	5 ± 0.05	0	23 ± 5	∞	1500	1600	-	Vrms	

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TEST CIRCUIT :

