



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



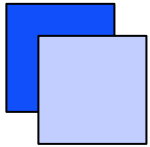
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DC-AC INVERTER UNIT

CXA-0271 (5W DUAL OUTPUTS WITH DIMMING FUNCTION)

DESCRIPTION :

This low profile DC to AC Inverter is developed for dual lamps, low power LCD back-light. Application includes industrial PC and LCD monitor.

Applicable LCD; 8 to 12 inches double lamp type
 Lamp Voltage 460Vrms
 Lamp Current 6mArms
 Lamp Start Up Voltage 1500Vrms (Vin : 12V)



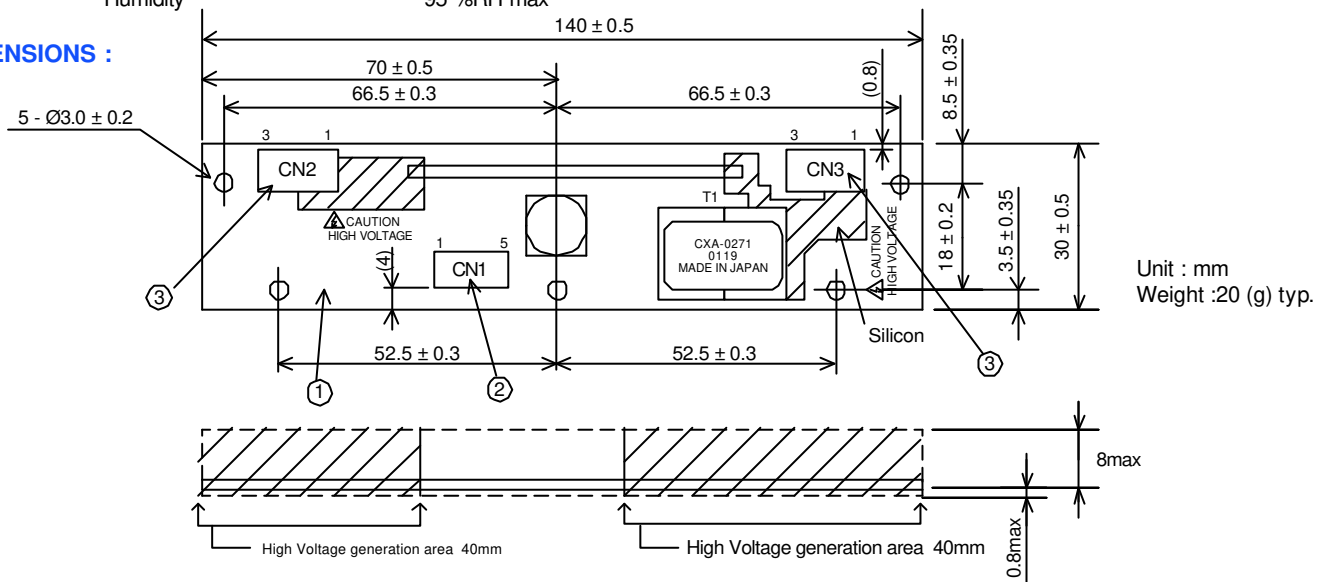
FEATURES :

- Alarm signal function
- PWM dimming type.
- 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 :



No.	Part Description	Qty.	Note
1	PWB	1	UL94V-0 t=1.0mm
2	Connector CN1	1	S5B-PH-SM3-TB (JST)
3	Connector CN2,CN3	2	SM02(8.0)B-BHS-1 (JST)

CN1 : S5B-PH-SM3-TB (JST)

Pin	Symbol	Note
CN1-1	Vin	10.8 ~ 13.2V
CN1-2	GND	0 V
CN1-3	Vbr	0 ~ 2.5V
CN1-4	Vst ^{*1}	0V / 5V
CN1-5	Vrmt	0V ~ 0.4V : OFF 2V ~ Vin : ON

***1. This is an output pin and it is active high (+5V) if any Lamp opens / fails.**

CN2 : SM02(8.0)B-BHS-1 (JST)

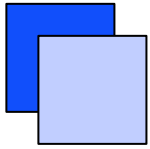
Pin	Symbol	Note
CN2-1	Vhigh1	460Vrms (6mArms)
CN2-2	N.C.	-
CN2-3	Vlow1	(2V)

CN3 : SM02(8.0)B-BHS-1 (JST)

Pin	Symbol	Note
CN3-1	Vhigh1	460Vrms (6mArms)
CN3-2	N.C.	-
CN3-3	Vlow1	(2V)

General Information Tel : +81-3-5201-7206 (Japan)
 Tel : +1-847-390-4439 (USA)
 Tel : +44-118-921-6206 (EU)

All specification are subject to change without notice.



CXA-0271 (5W DUAL OUTPUTS WITH DIMMING FUNCTION)

ELECTRICAL CHARACTERISTICS :

Parameters	Symbol	Conditions					Specifications			Unit	Note
		Vin (V)	Vrmt (V)	Vbr (V)	Ta (°C)	RL1 (kΩ) RL2 (kΩ)	min.	typ.	max.		
Output Current	Iout1 / Iout2	12 ± 1.2	5 ± 0.25	0	0 ~ +60	74	5.0	6.0	7.0	mArms	Max Brightness.
		12 ± 0.1	5 ± 0.25	0	23 ± 5	74	5.7	6.0	6.7	mArms	
		12 ± 0.1	5 ± 0.25	2.5	23 ± 5	74	1.2	2.0	2.8	mArms	Min Brightness.
		12 ± 0.1	5 ± 0.25	2.5	23 ± 5	74	1.2	2.0	2.8	mArms	
Input Current 1	Iin1	12 ± 1.2	5 ± 0.25	0 ~ 1.5	23 ± 5	74	-	0.55	0.7	A _{dc}	
Input Current 2	Iin2	12 ± 1.2	0 ± 0.25	0 ~ 1.5	23 ± 5	74	-	-	1	mA _{dc}	
Frequency	F1	12 ± 1.2	5 ± 0.25	0	23 ± 5	74	38	43	48	kHz	
Frequency (Duty)	F2	12 ± 1.2	5 ± 0.25	1.0	23 ± 5	74	254	305	356	Hz	
Open Voltage	Vopen	12 ± 1.2	5 ± 0.25	0	23 ± 5	∞	1250	1500	-	V _{rms}	
Alarm Signal	Vst	12 ± 0.1	5 ± 0.25	0 ~ 2.5	23 ± 5	74	4.5	5.0	5.5	V _{dc}	RL2 open
		12 ± 0.1	5 ± 0.25	0 ~ 2.5	23 ± 5	∞	4.5	5.0	5.5	V _{dc}	RL1 open
		12 ± 0.1	5 ± 0.25	0 ~ 2.5	23 ± 5	∞	4.5	5.0	5.5	V _{dc}	RL1 & RL2 open
		12 ± 0.1	5 ± 0.25	0 ~ 2.5	23 ± 5	∞	4.5	5.0	5.5	V _{dc}	RL1 & RL2 open
		12 ± 0.1	5 ± 0.25	0 ~ 2.5	23 ± 5	74	-	0	0.5	V _{dc}	Normal

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

TEST CIRCUIT :

