

DC-AC INVERTER UNIT

CXA-L0605-VSL (4W SINGLE OUTPUT WITH DIMMING FUNCTION)

DESCRIPTION :

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

Applicable LCD; 5 to 15 inches single lamp type
Lamp Voltage 600Vrms
Lamp Current 6mArms
Lamp Start Up Voltage 1600Vrms

FEATURES :

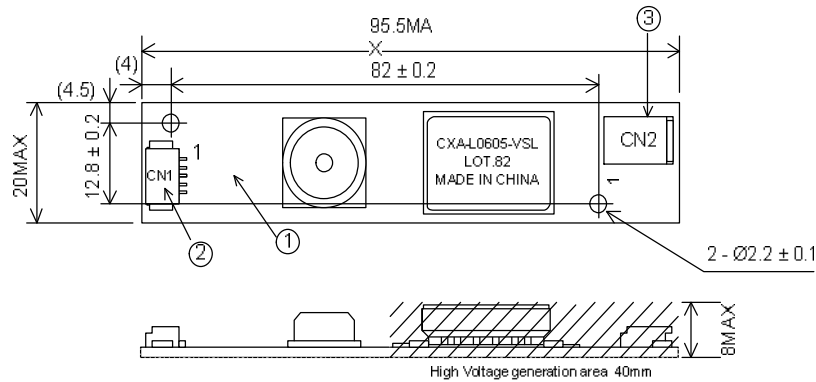
Current feedback circuit
High efficiency
Low noise with voltage resonant circuit
Regulated output current



TEMPERATURE & HUMDITY :

Operating Temperature Range 0 ~ +60
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.

No.	Part Description	Qty.	Note	Item
1	PWB	1	UL94V-0 t=1.0mm	
2	Connector CN1	1	53261-0590 (Molex)	
3	Connector CN2	1	SM02B-BHSS-1 (JST)	

CN1 : 53261-0590 (Molex)

Pin	Symbol	Note
CN1-1	Vin	4.75 ~ 5.25V
CN1-2	GND	0 V
CN1-3	Vrmt	0V ~ 0.5V : OFF 2.5V ~ Vin : ON
CN1-4	Vbr	0 ~ 3V
CN1-5	N.C.	For an internal circuit use. Don't connect.

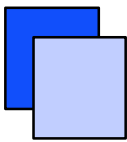
CN2 : SM02B-BHSS-1 (JST)

Pin	Symbol	Note
CN2-1	Vhigh	600Vrms (6mArms)
CN2-2	Vlow	(2V)

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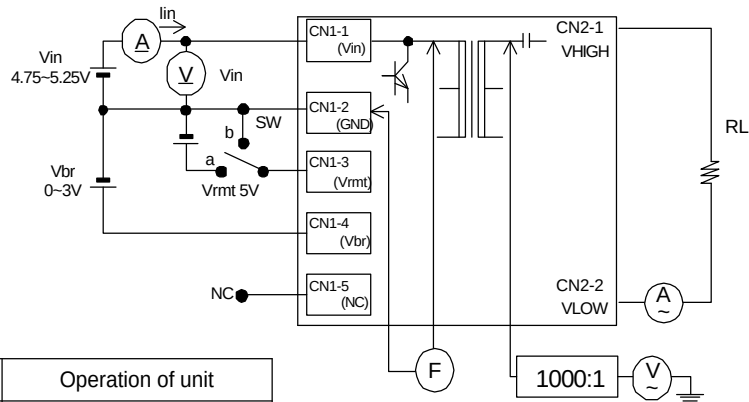


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ELECTRICAL CHARACTERISTICS :

Parameters	Symbol	Conditions					Specifications			Unit	Note
		Vin (V)	Vrmt(V)	Vbr (V)	Ta (°C)	RL (kΩ)	min.	typ.	max.		
Output Current	Iout	4.75 ~ 5.25	5	0	0 ~ +70	70 ~ 90	5.3	6.0	6.7	mArms	Max Brightness.
		4.75 ~ 5.25	5	0	23 ± 5	80	5.4	6.0	6.6	mArms	
		4.75 ~ 5.25	5	3	23 ± 5	226	2.4	3.0	3.6	mArms	Min Brightness.
Input Current	Iin	5	5	0	0 ~ +70	70 ~ 90	-	0.8	1.0	Adc	
Frequency	FL	4.75 ~ 5.25	5	0	0 ~ +70	70 ~ 90	35	45	55	kHz	
Open Voltage	Vopen	4.75 ~ 5.25	5	0	0 ~ +70	∞	1500	1600	-	Vrms	

TEST CIRCUIT :



SW	Operation of unit
a	Operation
b	Non operation