

# Power Supplies

## CXA Series CXA-L0605-VJL

### DC to AC Inverters

### Connector type, Dimming, 4W, For 1 Bulb

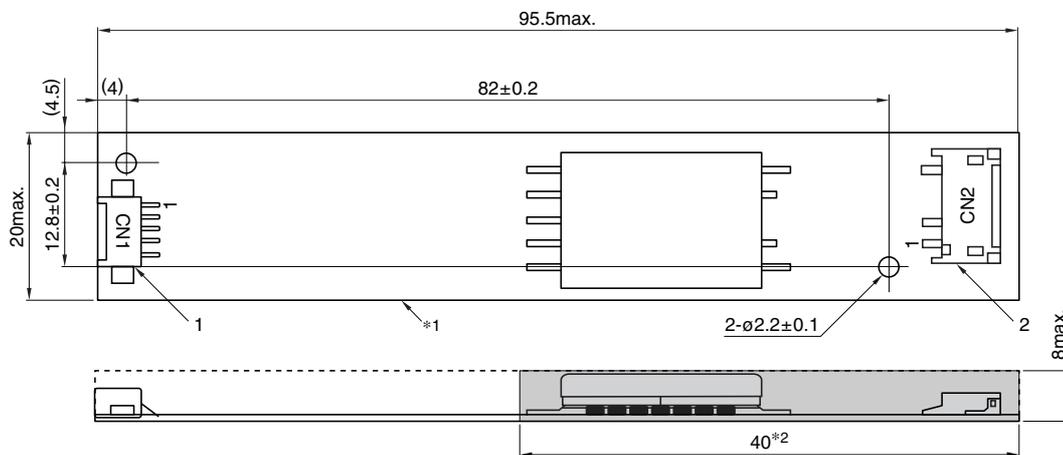
#### FEATURES

- The CXA-L0605-VJL is an inverter for cold cathode fluorescent lamps and features a built-in dimmer.
- Because they employ advanced output current control, fluctuations in input voltage, load, and distributed capacitance have virtually no effect on brightness.
- Output open and short circuit conditions result in no damage, heat generation, or other difficulties.
- Safe design that includes a built-in overcurrent protection element.
- Insulation is simplified due to flat backside surface of board.

#### TEMPERATURE AND HUMIDITY RANGES

Temperature range (°C)	Operating	0 to +60
	Storage	-20 to +85
Humidity range(%)RH	95max. [Maximum wet-bulb temperature 38°C]	

#### SHAPES AND DIMENSIONS



\*1 Substrate (PWB: Printed wiring board): Flame retardant material UL94V-0 (FR-4 or CEM-3)  $t=1\text{mm}$

Weight: 14.5g typ.

\*2  $\square$ : High-voltage generator (The entire surface within a range of 40mm away from the end of the base in the output)

Dimensions in mm

	Connector manufacturer's company and type	Symbol
1 Input connector	Morex Japan Co., Ltd. 53261-0590	CN1
2 Output connector	Japan Solderless Terminal Co., Ltd. SM02(8.0)B-BHS-1	CN2

#### TERMINAL NUMBERS AND FUNCTIONS

##### CN1

Terminal No.	Functions	Symbol
CN1-1	Input voltage Edc: 4.75 to 5.25V 5V[nom.]	Vin
CN1-2	0V	GND
CN1-3	Remote voltage Edc 0V: off/5 to 5.25V:on	Vrmt
CN1-4	Brightness dimmer voltage* Edc: 0 to 3V(Maximum brightness on 0V)	Vbr
CN1-5	Used in the internal circuits, do not connect.	N.C.

\* Brightness can be controlled by adjusting Vbr within a range of 0 to 3V.

##### CN2

Terminal No.	Functions	Symbol
CN2-1	Output[High voltage] Irms 3 to 6mA	VHIGH
CN2-2	—	N.C.
CN2-3	Output[Low voltage] (2V)	VLOW

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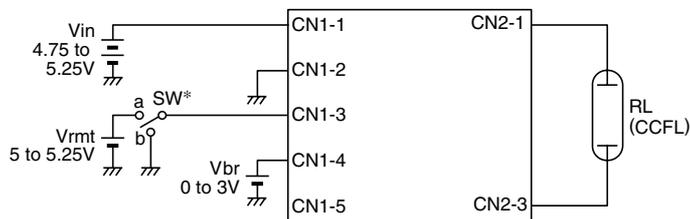
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### ELECTRICAL CHARACTERISTICS

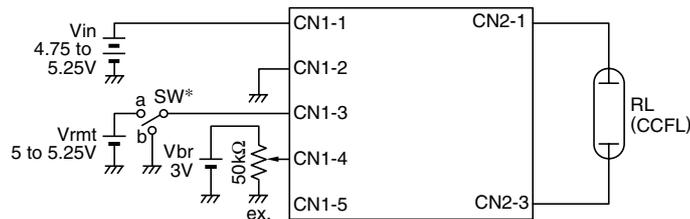
Items	Unit	Symbol	Specifications			Conditions		Ta(°C)	RL(kΩ)	Brightness
			min.	typ.	max.	Vin(V)	Vbr(V)			
Output current I <sub>rms</sub>	mA	I <sub>out</sub>	5.3	6	6.7	5±0.25	0	0 to 60	70 to 90	Maximum
			5.4	6	6.6	5±0.25	0	23±5	80	Maximum
			2.5	3	3.5	5±0.25	3	0 to 60	226	Minimum
Input current I <sub>dc</sub>	A	I <sub>in</sub>	—	0.7	0.8	5	0	23±5	80	
Oscillation frequency	kHz	F <sub>L</sub>	35	45	55	5±0.25	0	0 to 60	70 to 90	
Open circuit output voltage E <sub>rms</sub>	V	V <sub>open</sub>	1500	1700	—	5±0.25	0	0 to 60	∞	

### TYPICAL CONNECTIONS

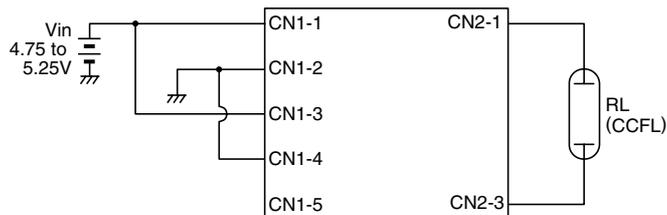
#### EXAMPLE OF VOLTAGE DIMMER CONTROL



#### EXAMPLE OF POTENTIOMETER DIMMER CONTROL



#### NO DIMMER CONTROL



\* SW a:on, b:off

### BRIGHTNESS DIMMER VOLTAGE-OUTPUT CURRENT CHARACTERISTICS

