

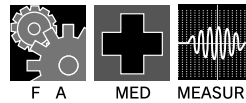
# CXA-P1212B-WJL

## Dimming/Connector Type

### ■ Features

- 2-output
  - Applicable panel size\*: 10 to 12 inches
  - With brightness control function (Pulse Wide Modulation mode).
  - With shut down function.
  - With a sensing function for running out of lamp (alarm output).
  - In the high-voltage generator(a terminal and a pattern), an anti-dust measure by silicone application is taken.
- (Notice) Applicable panel size becomes a standard.

### ■ Applications



## CXA-P1212B-WJL Specifications (Please refer to each specification before use)

### Electrical Characteristics

Item	Unit	Symbol	Specification			Condition							Remark
			min	typ	max	Vin(V)	Vrmt(V)	Vbr(V)	Rbr(kΩ)	Ta(°C)	RL(kΩ)	CL(pF)(*3)	
Output Current	mA	Iout (Maximum dimmer)	5.5	6.0	6.5	12±0.6	5	0	-	23±5	90	5	Voltage dimmer (*1)
			5.5	6.0	6.5	12±0.6	5	-	0	23±5	90	5	Volume dimmer (*1)
			5.3	6.0	6.7	12±1.2	5	0	-	-10 to +70	85 to 95	5	Voltage dimmer (*1)
		Iout (Minimum dimmer)	5.3	6.0	6.7	12±1.2	5	-	0	-10 to +70	85 to 95	5	Volume dimmer (*1)
			1.2	2.0	2.8	12±0.6	5	2.5	-	23±5	90	5	Voltage dimmer (*1)
			1.2	2.0	2.8	12±0.6	5	-	50	23±5	90	5	Volume dimmer (*1)
			1.1	2.0	2.9	12±1.2	5	2.5	-	-10 to +70	85 to 95	5	Voltage dimmer (*1)
1.1	2.0	2.9	12±1.2	5	-	50	-10 to +70	85 to 95	5	Volume dimmer (*1)			
Input Current	A	Iin1	-	0.8	1.0	12±0.6	5	0	-10 to +70	90	5	Remote ON	
	mA	Iin2	-	-	1	12±0.6	5	0	-10 to +70	85 to 95	5	Remote OFF	
Frequency	kHz	Freq	35	40	45	12±0.6	5	0	-10 to +70	85 to 95	5		
Open Circuit Voltage	Vrms	Vopen	1500	1700	-	10.8min.	5	0	-10 to +70	∞		Open load	
Alarm Signal	V	Vst	4.5	5.0	5.5	12±1.2	5	0	-10 to +70	∞		In case of lamp anomaly (*2)	
			-	0	0.5	12±1.2	5	0	-10 to +70	85 to 95	5	On a normal operation (*2)	

(\*1) Please refer to the connection diagram for details of a dimming method.

(\*2) Please refer to the connection diagram for details of alarm output.

(\*3) As equivalent circuit of panel load, connect resistance load (RL) and distributed capacity (CL), and have provided by an electrical characteristic.

### Other Specifications

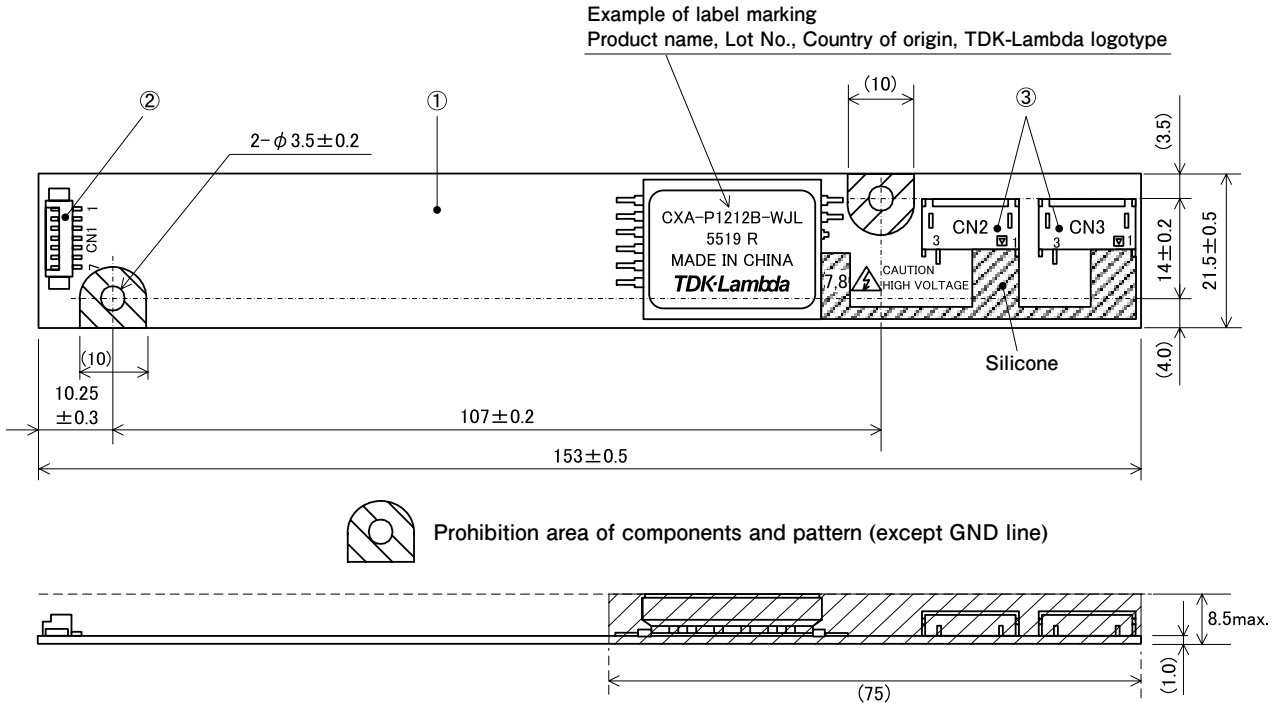
Dimming Function		Yes
Operating Temperature	°C	-10 to +70
Storage Temperature	°C	-30 to +85
Operating Humidity Ratio	RH%	95Max
Safety Standard		-
Weight	g	21.2
Dimensions(WxDxH)	mm	153x21x8.5 (*4)
Fused Input		Yes
Remote ON / OFF		Yes
Alarm Signal Function		Yes
Shutdown Function		Yes
Silicone Coating on High Voltage Area		Yes

(\*4) These dimensions are indicated the maximum only H. Others are typical values.

### ■ Conformity to RoHS Directive

This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

# Outline Drawing



※From high-voltage generator, please secure space distance more than 3mm in top and bottom right and left.

unit:mm

### Connector

Connector number	Part number	Model/Material	Quantity	Remarks	Recommended applicable connector
①	Printed circuit board PCB	Composite (CEM-3)	1	UL94V-0 t=1.0	—
②	Input connector CN1	53261-0771	1	Molex Inc.	51021-0700
③	Output connector CN2, CN3	SM02(8.0)B-BHS-1-TB (LF) (SN)	2	JST Mfg. Co., Ltd.	BHR-03VS-1

### Terminal Numbers And Functions

#### Input side CN1

Terminal number	Symbol	Rated voltage	Remarks
CN1-1	Vin	12±1.2V	Power input
CN1-2			
CN1-3	GND	0V	Ground
CN1-4			
CN1-5	Vrmt	0V/2.5V to Vin	Remote terminal 0 to 0.4V : OFF 2.5 to Vin V : ON
CN1-6	Vst (Output)	0V/5V	Alarm output Lump open : 5V
CN1-7	Vbr/Rbr	0 to 2.5V/0 to 50kΩ	Dimmer terminal

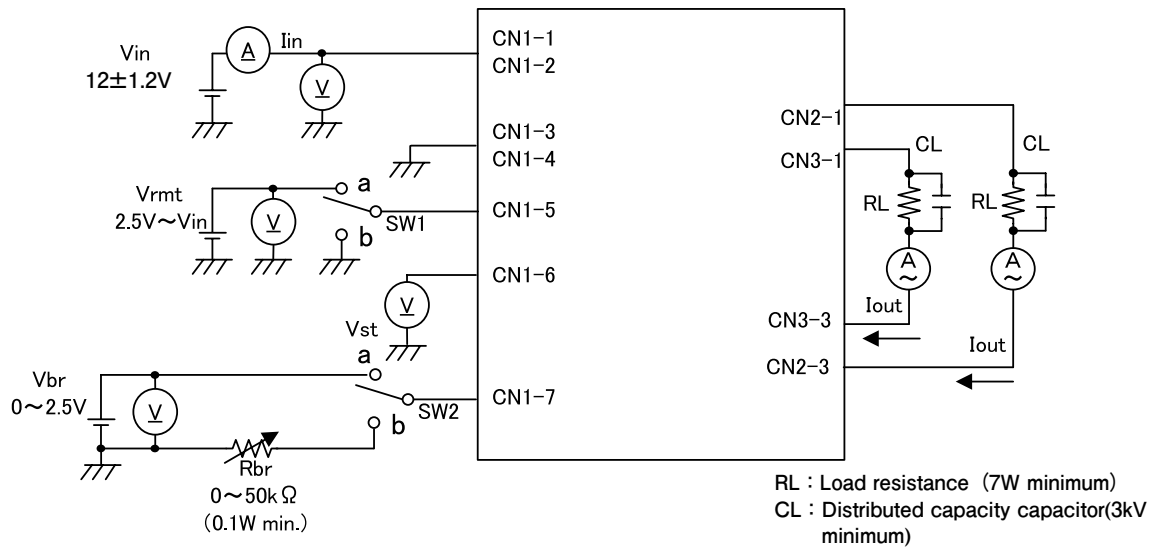
#### Output side CN2

Terminal number	Symbol	Rated voltage	Remarks
CN2-1	V <sub>HIGH1</sub>	600Vrms	Output 1
CN2-2	N.C.	—	N.C.
CN2-3	V <sub>Low1</sub>	(2V)	Output 1 return

#### Output side CN3

Terminal number	Symbol	Rated voltage	Remarks
CN3-1	V <sub>HIGH2</sub>	600Vrms	Output 2
CN3-2	N.C.	—	N.C.
CN3-3	V <sub>Low2</sub>	(2V)	Output 2 return

# Connections



Operate as follows by switching SW1.

SW1	Unit operation
a	Operation
b	Does not operate
Open	Does not operate

Operate as follows by switching SW2.

SW2	Unit operation
a	Voltage dimmer $V_{br}=0$ to 2.5V
b	Volume dimmer $V_R=0$ to 50kΩ

※  $V_{br}=0V$ :Maximum brightness  
 $R_{br}=0\Omega$ :Maximum brightness

Protection circuit operation

Load condition	Alarm output (CN1-6) <sup>※1</sup>	Shut-down function <sup>※2</sup>
Normal condition	0.5V max.	Does not shut down
When 1 load (lamp) is run-out	5±0.5V	Does not shut down
When 2 loads (lamps) are run-out	5±0.5V	Shut down

※1: When more than one of  $R_L$  was opened, output alarm signal of 5V.

※2: When all lamps were opened, this inverter has included protective function to stop operation in about 3 seconds.