CXA-0441

Dimming/Connector Type

■ Features

- ●2-output
- ●Applicable panel size*: 5 to 8 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-0441 Specifications (Please refer to each specification before use)

Electrical Characteristics

Item	Unit	Symbol	Specification			Condition						
			min	typ	max	Vin(V)	Vrmt(V)	Vbr(V)	Rbr(kΩ)	Ta(℃)	RL(kΩ)	Remark
Output Current	mArms	Iout (Maximum dimmer)	4.5	5.0	5.5	5±0.5	5	2.5	-	-10 to +75	90	Voltage dimmer (*1)
			4.5	5.0	5.5	5±0.5	5	-	10	-10 to +75	90	Volume dimmer (*1)
		Iout (Minimum dimmer)	2.1	2.6	3.1	5±0.5	5	0	-	-10 to +75	90	Voltage dimmer (*1)
			2.1	2.6	3.1	5±0.5	5	-	0	-10 to +75	90	Volume dimmer (*1)
Input Current	A	Iin1	-	1.32	1.57	5±0.05	5	2.5	10	-10 to +75	90	Remote ON
	mA	Iin2	-	0.2	1.0	5±0.5	0	2.5	10	-10 to +75	90	Remote OFF
Frequency	kHz	Freq1	49.0	52.5	56.0	5±0.5	5	2.5	10	-10 to +75	90	
	Hz	Freq2(Duty frequency)	241	255	269	5±0.5	5	0		-10 to +75	90	
Open Circuit Voltage	Vrms	Vopen	1250	1350	1600	4.5min.	5	2.5	10	-10 to +75	∞	Open load
Alarm Signal	V	Vst	4.0	5.1	5.5	5±0.5	5	2.5	10	-10 to +75	∞	In case of lamp anomaly (*2)
			-	0	0.5	5±0.5	5	2.5	10	-10 to +75	90	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.

Other Specifications

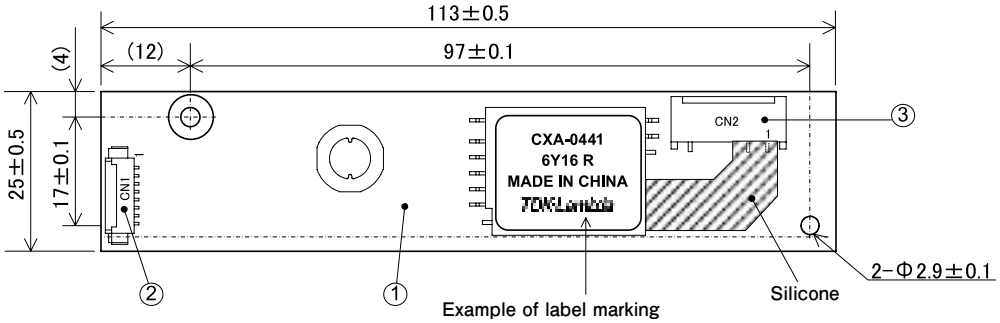
Dimming Function		Yes
Operating Temperature	℃	-10 to +75
Storage Temperature	℃	-20 to +85
Operating Humidity Ratio	RH%	95Max
Safety Standard		—
Weight	g	22
Dimensions(WxDxH)	mm	113x25x8.5 (*3)
Fused Input		Yes
Remote ON ／ OFF		Yes
Alarm Signal Function		Yes
Shutdown Function		Yes
Silicone Coating on High Voltage Area		Yes

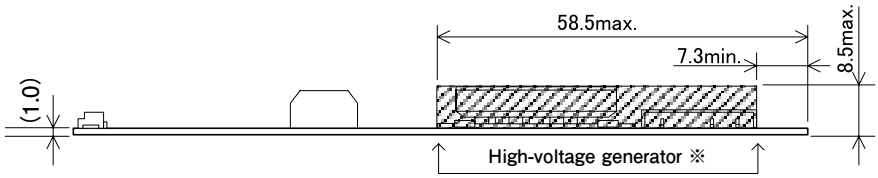
(*3) These dimensions are indicated the maximum only H. Others are typical values.

■ Conformity to RoHs Directive

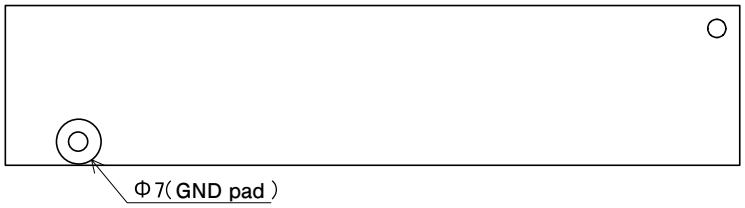
This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

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	53261-0871	1	Molex Inc.	51021-0800
③	Output connector CN2	SM03(7-D1) B-BHS-1-TB (LF) (SN)	1	JST Mfg. Co., Ltd.	BHR-04VS-1

Terminal Numbers And Functions

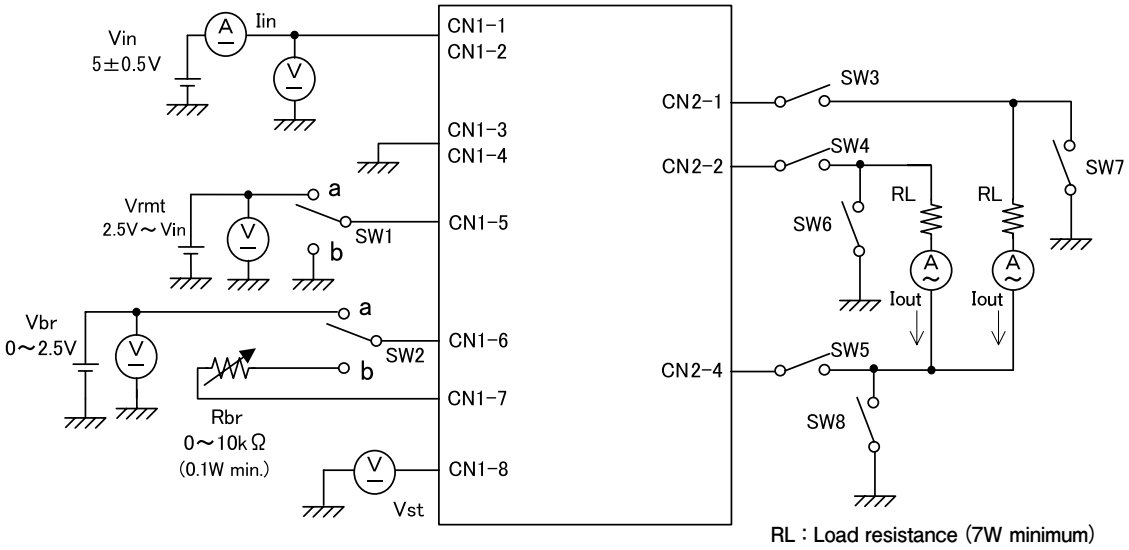
Input side CN1

Terminal number	Symbol	Rated voltagex	Remarks
CN1-1	Vin	5±0.5V	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 : ON Open : ON
CN1-6	Rbr1/Vbr	0 to 2.5V/0 to 10kΩ	Dimmer terminal 1
CN1-7	Rbr2	0 to 10kΩ	Dimmer terminal 2
CN1-8	Vst (Output)	0V/5V	Alarm output Lump open : 5V

Output side CN2

Terminal number	Symbol	Rated voltage	Remarks
CN2-1	$V_{HIGH}1$	450Vrms	Output 1
CN2-2	$V_{HIGH}2$	450Vrms	Output 2
CN2-3	N.C.	—	N.C.
CN2-4	V_{LOW}	(2V)	Output 1, 2 return

Connections



Operate as follows by switching SW1.

SW1	Unit operation
a	Operation
b	Does not operate
Open	Operation

Operate as follows by switching SW2.

SW2	Unit operation
a	Voltage dimmer Vbr=0 to 2.5V (2.5V: Maximum brightness)
b	Volume dimmer VR=0 to 10kΩ (10kΩ: Maximum brightness)

Operate by a switch of SW3 to 8 as follows.

SW3 to 5	Alarm output
Open	Operation (5V output)
Close	Does not operate (0V output)

SW6 to 8	Alarm output
Open	Does not operate (0V output)
Close	Operation (5V output)