CXA-0395

Dimming/Connector Type

■ Features

- ●2-output
- ●Applicable panel size*: 5 to 8.4 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

F A   MED   MEASURE

CXA-0395 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(℃)	RL(kΩ)	
Output Current	mArms	Iout (Maximum dimmer)	5.5	6.0	6.5	12±0.6	5	0	-	23±5	70	Voltage dimmer (*1)
			5.5	6.0	6.5	12±0.6	5	-	0	23±5	70	Volume dimmer (*1)
			5.3	6.0	6.7	12±1.2	5	0	-	0 to +60	60 to 80	Voltage dimmer (*1)
			5.3	6.0	6.7	12±1.2	5	-	0	0 to +60	60 to 80	Volume dimmer (*1)
		Iout (Minimum dimmer)	1.8	2.5	3.2	12±0.6	5	2.5	-	23±5	70	Voltage dimmer (*1)
			1.8	2.5	3.2	12±0.6	5	-	50	23±5	70	Volume dimmer (*1)
			1.7	2.5	3.3	12±1.2	5	2.5	-	0 to +60	60 to 80	Voltage dimmer (*1)
			1.7	2.5	3.3	12±1.2	5	-	50	0 to +60	60 to 80	Volume dimmer (*1)
Input Current	A	Iin1	-	0.55	0.90	12±0.6	5	0		0 to +60	70	Remote ON
	mA	Iin2		-	1	12±0.6		0		0 to +60	60 to 80	Remote OFF
Frequency	kHz	Freq1	35	40	45	12±0.6	5	0		0 to +60	60 to 80	
	Hz	Freq2 (Duty frequency)	215	270	325	12±0.6	5	2.5	50	0 to +60	60 to 80	
Open Circuit Voltage	Vrms	Vopen	1400	1500	-	10.8min.	5	0		0 to +60	∞	Open load
Alarm Signal	V	Vst	4.5	5.0	5.5	12±1.2	5	0		0 to +60	∞	In case of lamp anomaly (*2)
			-	0	0.5	12±1.2	5	0		0 to +60	60 to 80	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.
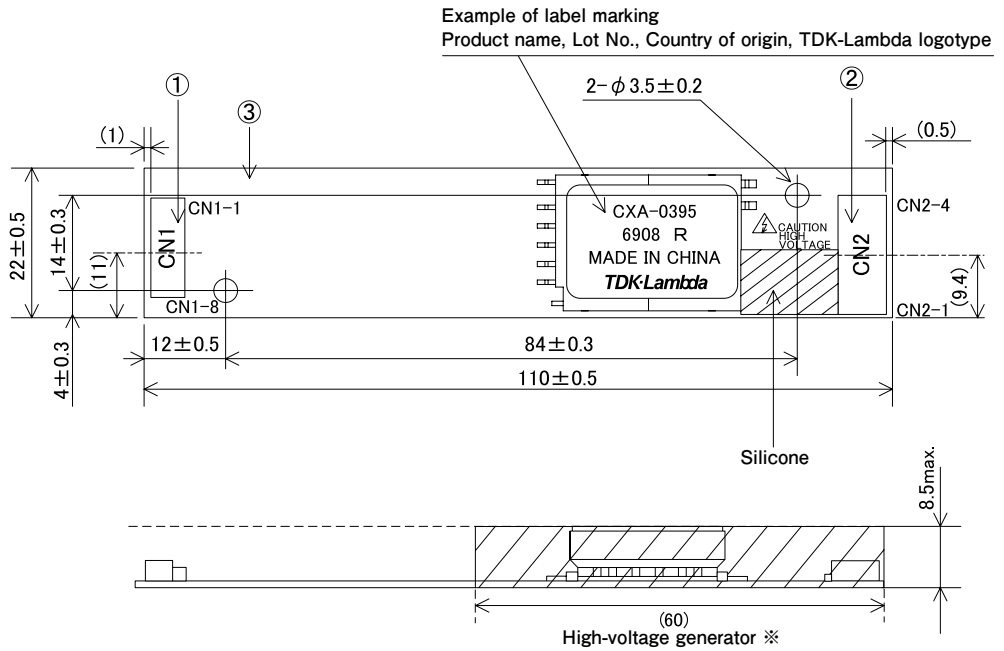
Other Specifications

Dimming Function		Yes
Operating Temperature	℃	0 to +60
Storage Temperature	℃	-30 to +85
Operating Humidity Ratio	RH%	95Max
Safety Standard		—
Weight	g	22
Dimensions(WxDxH)	mm	110x22x8.5 (*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.

· All specifications are subject to change without notice.

Outline Drawing

Example of label marking
Product name, Lot No., Country of origin, TDK-Lambda logotype

CXA−0395
6908 R
MADE IN CHINA
TDK·Lambda

2−φ 3.5±0.2

CAUTION HIGH VOLTAGE

22±0.5
14±0.3
(11)
4±0.3
(1)
(0.5)
(9.4)
8.5max.

CN1-1
CN1-8
CN1
CN2-4
CN2-1
CN2

12±0.5
84±0.3
110±0.5

Silicone

(60)
High-voltage generator ※
(The entire surface within a range of 60mm away from the end of the basein)

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

unit:mm

Connector

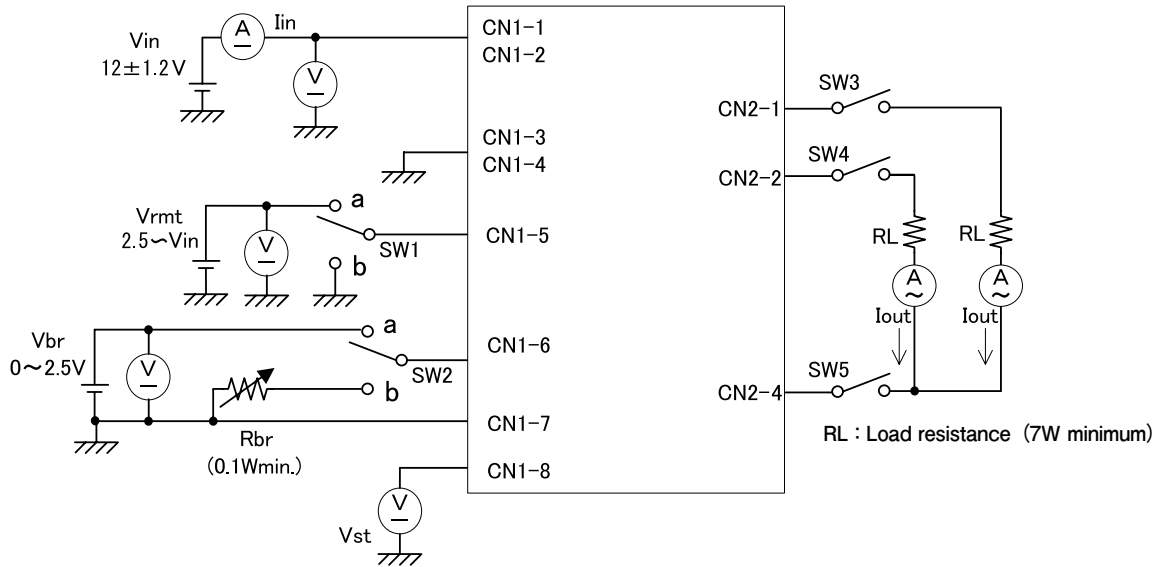| Connector number	Part number	Model/Material	Quantity	Remarks	Recommended applicable connector
①	Input connector CN1	53261-0871	1	Molex Inc.	51021-0800
②	Output connector CN2,CN3	SM03 (7-D1) B-BHS-1-TB (LF) (SN)	1	JST Mfg. Co., Ltd.	BHR-04VS-1
③	Printed circuit board PCB	Composite (CEM-3)	1	UL94V-0 t=1.0mm	—

Terminal Numbers And Functions

Input side CN1

Terminal number	Symbol		Remarks
	Symbol	Rated voltage	
CN1-1	Vin	12±1.2V	Power input
CN1-2			
CN1-3	GND	0V	Ground
CN1-4			
CN1-5	Vrmt	-1 to Vin+1V	Remote terminal 0 to 0.4V : OFF 2.5 to Vin V : ON
CN1-6	Vbr1/Rbr1	0 to 2.5V/0 to 50kΩ	Dimmer terminal 1
CN1-7	Vbr2/Rbr2	GND/0 to 50kΩ	Dimmer terminal 2
CN1-8	Vst (Output)	0V/5V	Alarm output Lump open：5V

Output side CN2

Terminal number	Symbol		Remarks
	Symbol	Rated voltage	
CN2-1	$V_{HIGH}1$	600Vrms	Output 1
CN2-2	$V_{HIGH}2$	600Vrms	Output 2
CN2-3	N.C.	—	N.C.
CN2-4	V_{LOW}	(2V)	Output 1, 2 return

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Connections

Operate as follows by switching SW1.

SW1	Unit operation
a	Operation
b	Does not operate

Operate as follows by switching SW2.

SW2	Unit operation
a	Voltage dimmer Vbr=0 to 2.5V
b	Volume dimmer VR=0 to 50kΩ

Operate by a switch of SW3 to 5 as follows.

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

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

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