

## DC to AC Inverters Connector type, Dimming, 5W, for 2 Bulbs

**Conformity to RoHS Directive** 

### CXA Series CXA-M1212-RJL

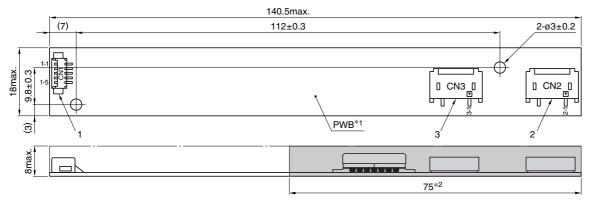
#### **FEATURES**

- The CXA-M1212-RJL 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.
- It is a product conforming to RoHS directive.

#### **TEMPERATURE AND HUMIDITY RANGES**

Temperature range	Operating	0 to +60
(°C)	Storage	-30 to +85
Humidity range(%)RH		95max.
		[Maximum wet-bulb temperature 38°C]

#### **SHAPES AND DIMENSIONS**



<sup>\*1</sup> Substrate (PWB: Printed wiring board): Flame retardant material UL94V-0(FR-4 or CEM-3) t=1mm

Weight: 15.5g typ.

Dimensions in mm

		Connector manufacturer's company and type	Symbol		
1	Input connector	Molex Japan Co., Ltd.	53261-0571	CN1	
2	Output connector	Japan Solderless Terminal Co., Ltd.	SM02(8.0)B-BHS-1	CN2	_
3	Output connector	Japan Solderless Terminal Co., Ltd.	SM02(8.0)B-BHS-1	CN3	

## TERMINAL NUMBERS AND FUNCTIONS No.CN1

Terminal No.	Functions	Symbol
CN1-1	Input voltage Edc: 9.6 to 14.4V 12V[nom.]	Vin
CN1-2	0V	GND
CN1-3	Remote voltage Edc 0V: off/5 to 14.4V:on	Vrmt
CN1-4	Brightness dimmer voltage* Edc: 0 to 50kΩ	VR
CN1-5	(Maximum brightness on 50kΩ)	۷n

<sup>\*</sup> Brightness can be controlled by adjusting VR within a range of 0 to  $50k\Omega$ .

## CN2

Terminal No.	Functions	Symbol		
CN3-1	Output 1[High voltage] Irms	2 to 6mA	VHIGH1	
CN3-2	_	_	N.C.	
CN3-3	Output 1[Low voltage]	(2V)	VLOW1	

#### CN<sub>3</sub>

Terminal No.	Functions		Symbol
CN3-1	Output 2[High voltage] Irms	2 to 6mA	VHIGH2
CN3-2	_	_	N.C.
CN3-3	Output 2[Low voltage]	(2V)	VLOW2

<sup>\*2 :</sup> High-voltage generator (The entire surface within a range of 75mm away from the end of the base in the output)

<sup>•</sup> 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.

<sup>•</sup> All specifications are subject to change without notice.

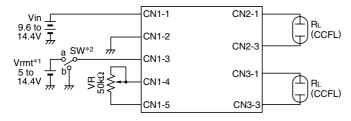


## CXA-M1212-RJL

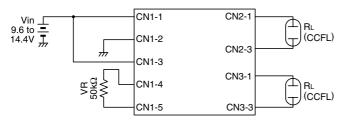
### **ELECTRICAL CHARACTERISTICS**

Items	Unit	Symbol	Specifications		Conditions				Drightness	
nems			min.	typ.	max.	Vin(V)	VR(kΩ)	Ta(°C)	$RL(k\Omega)$	<ul><li>Brightness</li></ul>
	mA	lout1	5.3	6	6.7	9.6 to 14.4	50	0 to +60	50 to 70	Maximum
		lout2	5.3	6	6.7	9.6 to 14.4	50	0 to +60	50 to 70	Maximum
Output current Irms		lout1	5.5	6	6.5	12	50	23±5	60	Maximum
		lout2	5.5	6	6.5	12	50	23±5	60	Maximum
		lout1	1.7	2	2.3	12	0	23±5	180	Minimum
		lout2	1.7	2	2.3	12	0	23±5	180	Minimum
Input current Idc	Α	lin	_	0.47	0.75	9.6 to 14.4	0 to 50	0 to +60	50 to 70	
Oscillation frequency	kHz	FL	33	39	45	9.6 to 14.4	50	0 to +60	50 to 70	
Open circuit output voltage Erms	V	Vopen	1400	1500	_	9.6 to 14.4	0 to 50	0 to +60	∞	

# TYPICAL CONNECTIONS EXAMPLE OF POTENTIOMETER DIMMER CONTROL

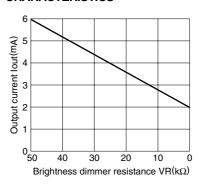


### **NO DIMMER CONTROL**



- \*1 Vrmt (remote voltage) shall be ON after Vin was ON.
- \*2 SW a: on, b:off

## BRIGHTNESS DIMMER RESISTANCE-OUTPUT CURRENT CHARACTERISTICS





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