

DC to AC Inverters

Conformity to RoHS Directive

Connector type, Non-dimming, 3.5W, for 1 Bulb

CXA Series CXA-L0505-NJL/-L0512-NJL/-L0524-NJL

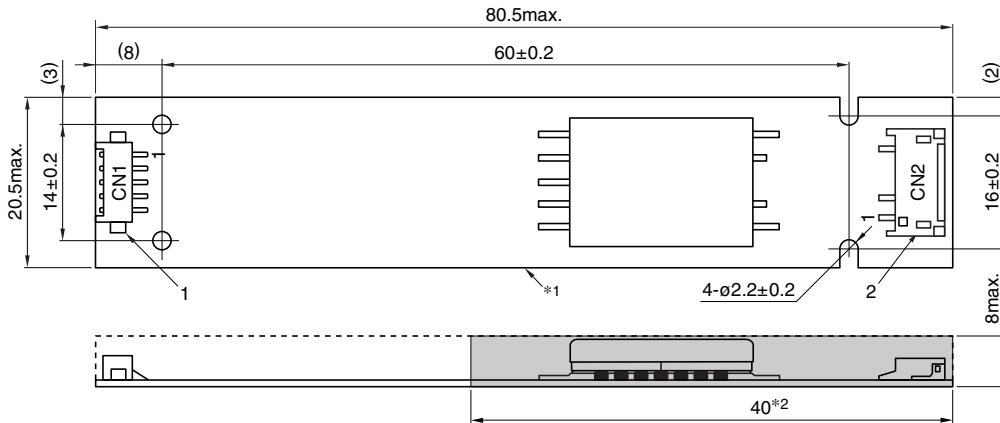
FEATURES

- The CXA-L05-NJL series inverters support a wide range of CCFL devices and are characterized by highly stable output current.
- Employing a resonance-type push-pull circuit, these inverters deliver sine wave output with very low noise levels.
- Insulation is simplified due to flat backside surface of board.
- Safe design that includes a built-in overcurrent protection element.
- It is a product conforming to RoHS directive.

TEMPERATURE AND HUMIDITY RANGES

Temperature range (°C)	Operating	0 to +60
	Storage	-30 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) $t=1\text{mm}$
- *2 : High-voltage generator (The entire surface within a range of 40mm away from the end of the base in the output)

Weight: 11g typ.

Dimensions in mm

	Connector manufacturer's company and type	Symbol
1 Input connector	Molex 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

Terminal No.	Functions	CXA-L0505-NJL	CXA-L0512-NJL	CXA-L0524-NJL	Symbol
CN1-1	Input voltage Edc	4.75 to 5.25V 5V[nom.]	11.4 to 12.6V 12V[nom.]	22.8 to 25.2V 24V[nom.]	Vin
CN1-2		0V	0V	0V	GND
CN1-3		—	—	—	N.C.
CN1-4		—	—	—	N.C.
CN1-5		—	—	—	N.C.

CN2

Terminal No.	Functions	Symbol
CN2-1	Output 1[High voltage] Irms 5mA	V _{HIGH}
CN2-2	—	N.C.
CN2-3	Output[Low voltage] (2V)	V _{LOW}

- 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.

CXA-L0505-NJL/-L0512-NJL/-L0524-NJL

ELECTRICAL CHARACTERISTICS

CXA-L0505-NJL

Items	Unit	Symbol	Specifications			Conditions		
			min.	typ.	max.	V _{in} (V)	T _a (°C)	R _L (kΩ)
Output current I _{rms}	mA	I _{out}	4.5	5	5.5	5±1%	23±5	120
			4	5	6	5±5%	-10 to +60	110 to 130
Input current I _{dc}	A	I _{in}	—	0.72	1.2	5±5%	-10 to +60	110 to 130
Oscillation frequency	kHz	FL	33	40	47	5±5%	-10 to +60	110 to 130
Open circuit output voltage E _{rms}	V	V _{open}	1400	1500	—	5±5%	-10 to +60	∞
Output power	W	P _{out}	—	—	3.5	5±5%	-10 to +60	—

CXA-L0512-NJL

Items	Unit	Symbol	Specifications			Conditions		
			min.	typ.	max.	V _{in} (V)	T _a (°C)	R _L (kΩ)
Output current I _{rms}	mA	I _{out}	4.5	5	5.5	12±1%	23±5	120
			4	5	6	12±5%	-10 to +60	110 to 130
Input current I _{dc}	A	I _{in}	—	0.3	0.5	12±5%	-10 to +60	110 to 130
Oscillation frequency	kHz	FL	33	40	47	12±5%	-10 to +60	110 to 130
Open circuit output voltage E _{rms}	V	V _{open}	1400	1500	—	12±5%	-10 to +60	∞
Output power	W	P _{out}	—	—	3.5	12±5%	-10 to +60	—

CXA-L0524-NJL

Items	Unit	Symbol	Specifications			Conditions		
			min.	typ.	max.	V _{in} (V)	T _a (°C)	R _L (kΩ)
Output current I _{rms}	mA	I _{out}	4.5	5	5.5	24±1%	23±5	120
			4	5	6	24±5%	-10 to +60	110 to 130
Input current I _{dc}	A	I _{in}	—	0.15	0.25	24±5%	-10 to +60	110 to 130
Oscillation frequency	kHz	FL	26	32	38	24±5%	-10 to +60	110 to 130
Open circuit output voltage E _{rms}	V	V _{open}	1400	1500	—	24±5%	-10 to +60	∞
Output power	W	P _{out}	—	—	3.5	24±5%	-10 to +60	—

TYPICAL CONNECTION

