

Power Supplies

DC to AC Inverters

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

CXA Series

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

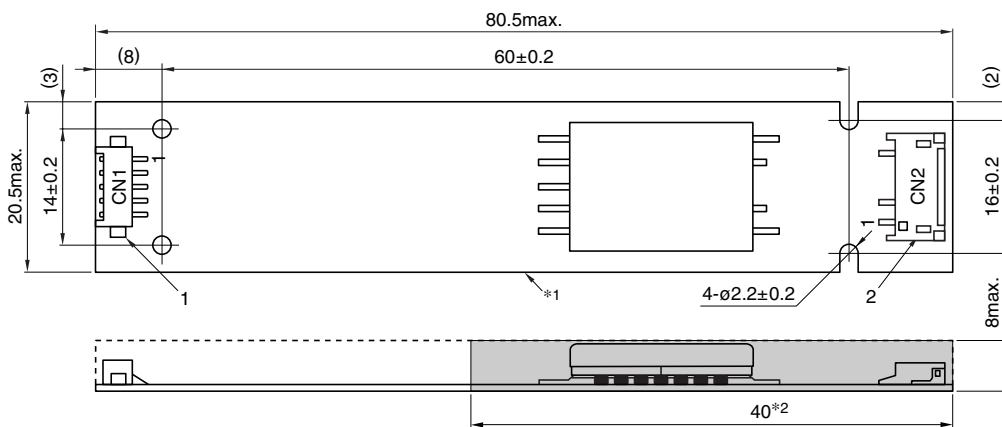
FEATURES

- 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.

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=1mm
 *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	Morex 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

CN1

Terminal No.	Functions	CXA-L0505-NJL	CXA-L0512-NJL	CXA-L0524-NJL	Symbol
CN1-1	Input voltage Edc	0 to 6V 5V[nom.]	0 to 14.4V 12V[nom.]	0 to 28.8V 24V[nom.]	V _{in}
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] I _{rms} 5mA	V _{HIGH}
CN2-2	—	N.C.
CN2-3	Output[Low voltage] (2V)	V _{LOW}

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ELECTRICAL CHARACTERISTICS

CXA-L0505-NJL

Items	Unit	Symbol	Specifications			Conditions		
			min.	typ.	max.	Vin(V)	Ta(°C)	RL(kΩ)
Output current Irms	mA	Iout	4.5	5	5.5	5±1%	23±5	120
			4	5	6	5±5%	-10 to +60	110 to 130
Input current Idc	A	Iin	—	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 Erms	V	Vopen	1400	1500	—	5±5%	-10 to +60	∞
Output power	W	Pout	—	—	3.5	5±5%	-10 to +60	—

CXA-L0512-NJL

Items	Unit	Symbol	Specifications			Conditions		
			min.	typ.	max.	Vin(V)	Ta(°C)	RL(kΩ)
Output current Irms	mA	Iout	4.5	5	5.5	12±1%	23±5	120
			4	5	6	12±5%	-10 to +60	110 to 130
Input current Idc	A	Iin	—	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 Erms	V	Vopen	1400	1500	—	12±5%	-10 to +60	∞
Output power	W	Pout	—	—	3.5	12±5%	-10 to +60	—

CXA-L0524-NJL

Items	Unit	Symbol	Specifications			Conditions		
			min.	typ.	max.	Vin(V)	Ta(°C)	RL(kΩ)
Output current Irms	mA	Iout	4.5	5	5.5	24±1%	23±5	120
			4	5	6	24±5%	-10 to +60	110 to 130
Input current Idc	A	Iin	—	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 Erms	V	Vopen	1400	1500	—	24±5%	-10 to +60	∞
Output power	W	Pout	—	—	3.5	24±5%	-10 to +60	—

TYPICAL CONNECTION

