

MESSRS :

Brochure

CUSTOMER'S PRODUCT NAME :

TDK PRODUCT NAME : DC/AC INVERTER UNIT NEW-CXA Series

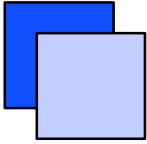


TDK-Lambda Corporation

PREPARED BY	APPROVED BY	AUTHORIZED BY
<i>Oct. 9th, 2008 K. Imai</i>	<i>Oct. 9th, 2008 K. Yamaishi</i>	<i>Oct. 9th, 2008 H. Masuoka</i>

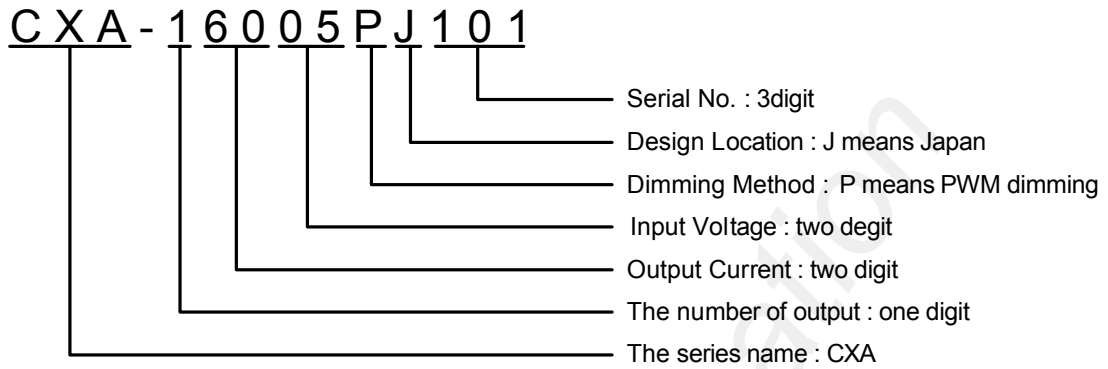
DWG. No.

CTR-3308-F



New_CXA-series

1.Name of new CXA-series

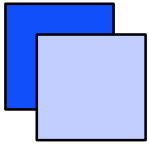


2.New CXA specification parametric table

item name	# of lamps	Input Voltage (Vdc)	Output Current (mArms)	freq. (kHz)	Burst freq. (Hz)	Vopen min (Vrms)	Dimensions	PWB
CXA-16012PJ102	1	10.8~13.2	6	(50)	(220)	(1700)	100.0(typ.)x20.0(typ.)x8.5(max)	τ=1.0
CXA-26012PJ103	2	10.8~13.2	6	(50)	(220)	(1700)	110.0(typ.)x37.0(typ.)x8.5(max)	τ=1.0
CXA-26012PJ104	2	10.8~13.2	6	(45)	(220)	(1700)	110.0(typ.)x37.0(typ.)x8.5(max)	τ=1.0
CXA-26012PJ105	2	10.8~13.2	6	(50)	(220)	(1700)	130.0(typ.)x35.0(typ.)x8.5(max)	τ=1.0
CXA-46012PJ106	4	10.8~13.2	6	(45)	(220)	(1700)	180.0(typ.)x37.0(typ.)x8.5(max)	τ=1.0
CXA-46012PJ107	4	10.8~13.2	6	(45)	(220)	(1700)	180.0(typ.)x37.0(typ.)x8.5(max)	τ=1.0
CXA-46012PJ108	4	10.8~13.2	6	(40)	(220)	(1700)	180.0(typ.)x37.0(typ.)x8.5(max)	τ=1.0
CXA-46012PJ109	4	10.8~13.2	6	(60)	(220)	(1700)	180.0(typ.)x37.0(typ.)x8.5(max)	τ=1.0

*Vopen is determined by 5pF output capacitor because there is stray capacitance between output connector and panel.

item name	Input Connector	Corresponding	vendor	Output Connector	Corresponding	vendor
CXA-16012PJ102	53261-0771	51021-0700	molex	SM02B-BHSS-1	BHSR-02VS-1	JST
CXA-26012PJ103	53261-0771	51021-0700	molex	SM02(8.0)B-BHS-1	BHR-03VS-1	JST
CXA-26012PJ104	53261-0771	51021-0700	molex	SM03(7-D1)B-BHS-1	BHR-04VS-1	JST
CXA-26012PJ105	S7B-PH-SM4	PHR-7	JST	SM02(8.0)B-BHS-1	BHR-03VS-1	JST
CXA-46012PJ106	S7B-PH-SM4	PHR-7	JST	SM02B-BHSS-1	BHSR-02VS-1	JST
CXA-46012PJ107	S7B-PH-SM4	PHR-7	JST	SM02(8.0)B-BHS-1	BHR-03VS-1	JST
CXA-46012PJ108	S7B-PH-SM4	PHR-7	JST	SM03(7-D1)B-BHS-1	BHR-04VS-1	JST
CXA-46012PJ109	S7B-PH-SM4	PHR-7	JST	SM02B-BHSS-1 SM02(4.0)B-BHS-1	BHSR-02VS-1 BHR-02VS-1	JST

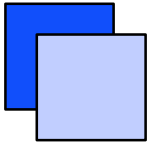


3. New CXA common functions

- Built in circuit protector.
- Shutdown function available.
- Alarm signal output function.
- Silicon resin is painted on high voltage generation area to avoid dust and insects.

4. Absolute Maximum Ratings

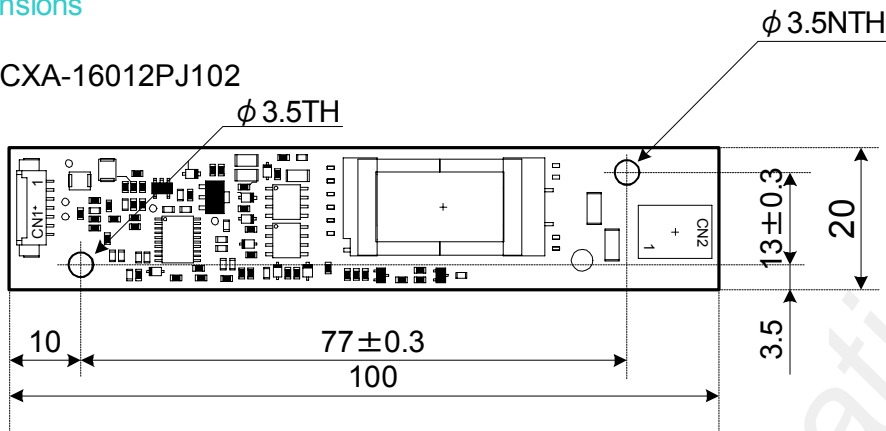
Item	Symbol	Specification	Unit	Notes
Input Voltage	Vin	13.2	Vdc	
	Vrmt	-1 ~ Vin+1	Vdc	
	Vbr	-1 ~ Vin+1	Vdc	
Operating Temp. Range	Ta	-30 ~ 80	degC	
Storage Temp. Range	Ts	-40 ~ 85	degC	
Maximum Humidity	RH	95	%RH	A maximum wet ball temp is 38 degC.



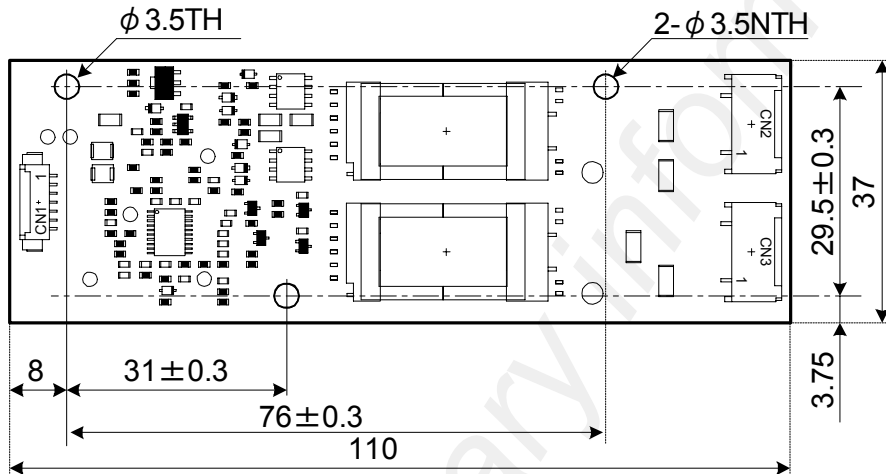
New_CXA-series

5. Dimensions

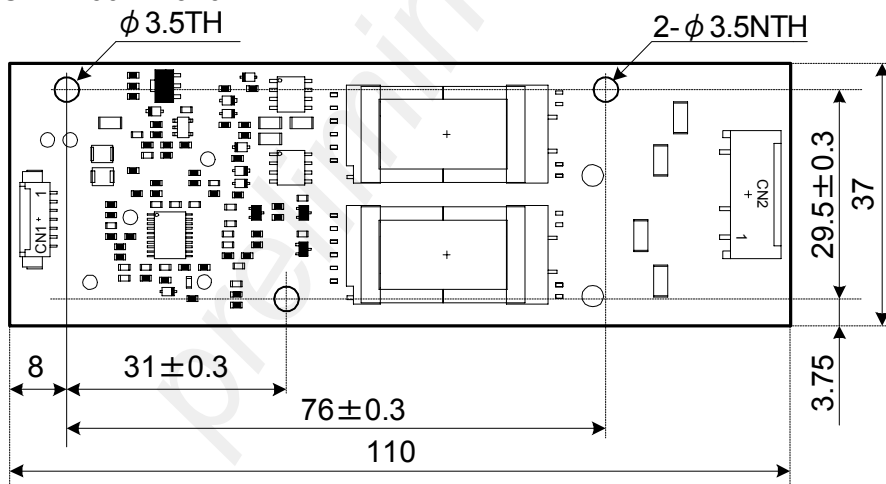
5-1. CXA-16012PJ102



5-2. CXA-26012PJ103



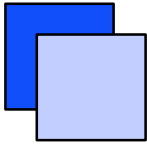
5-3. CXA-26012PJ104



unit in mm

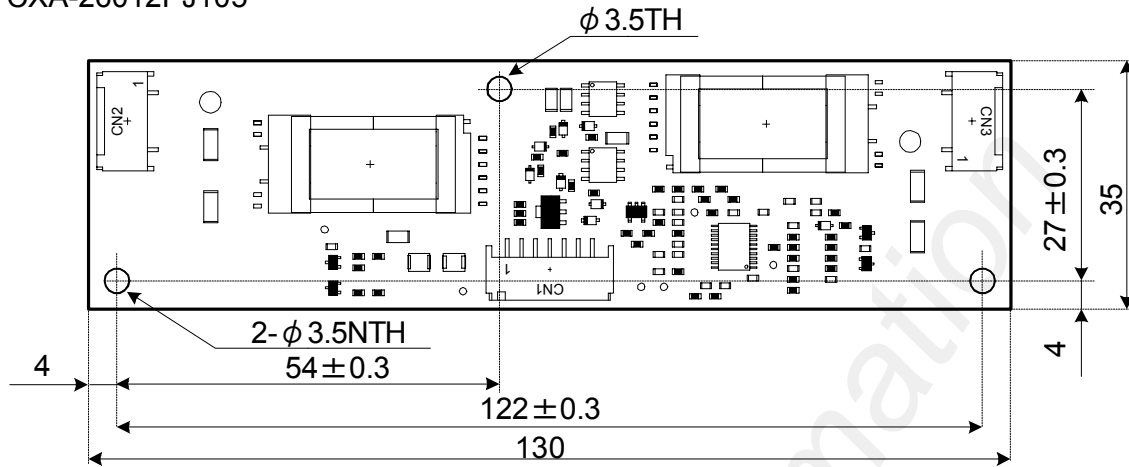
tolerance is ±0.5mm unless otherwise specified.

All mounting holes have to tighten the screws to protect from vibrations and shocks.

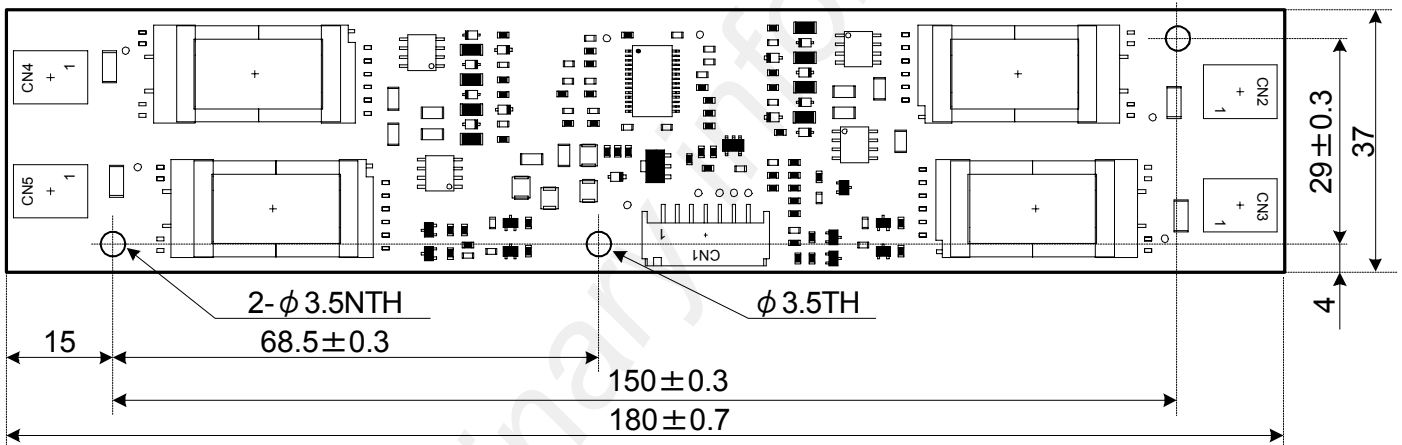


New_CXA-series

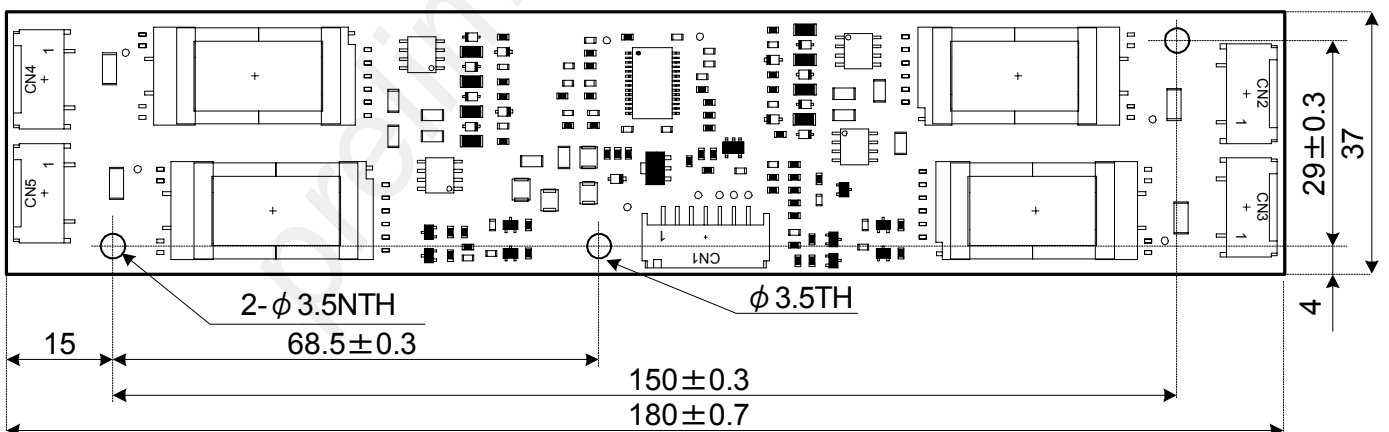
5-4. CXA-26012PJ105



5-5. CXA-46012PJ106



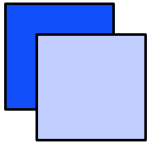
5-6. CXA-46012PJ107



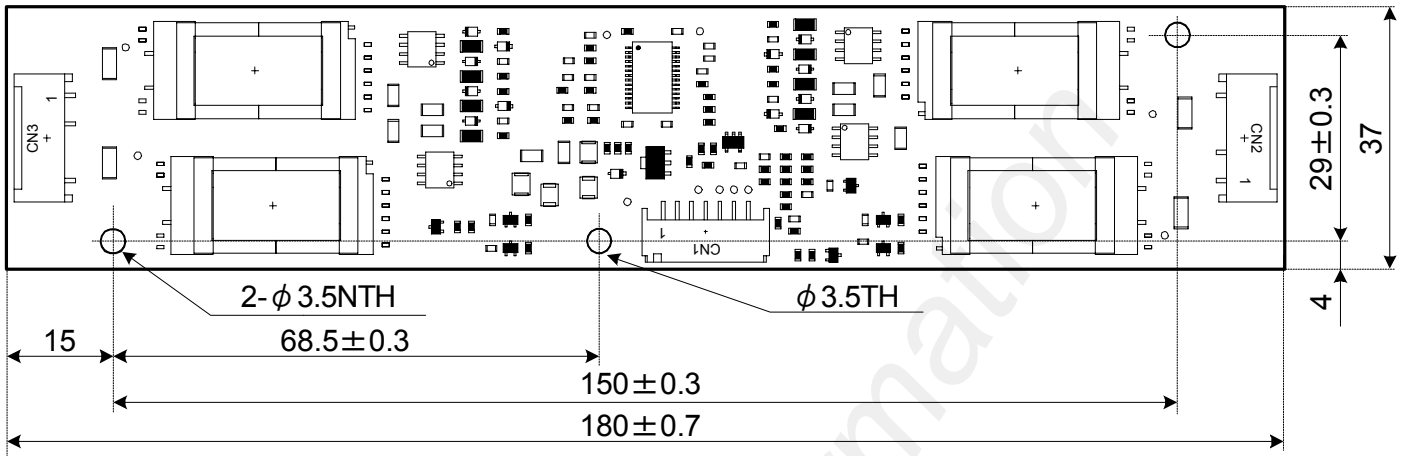
tolerance is $\pm 0.5\text{mm}$ unless otherwise specified.

unit in mm

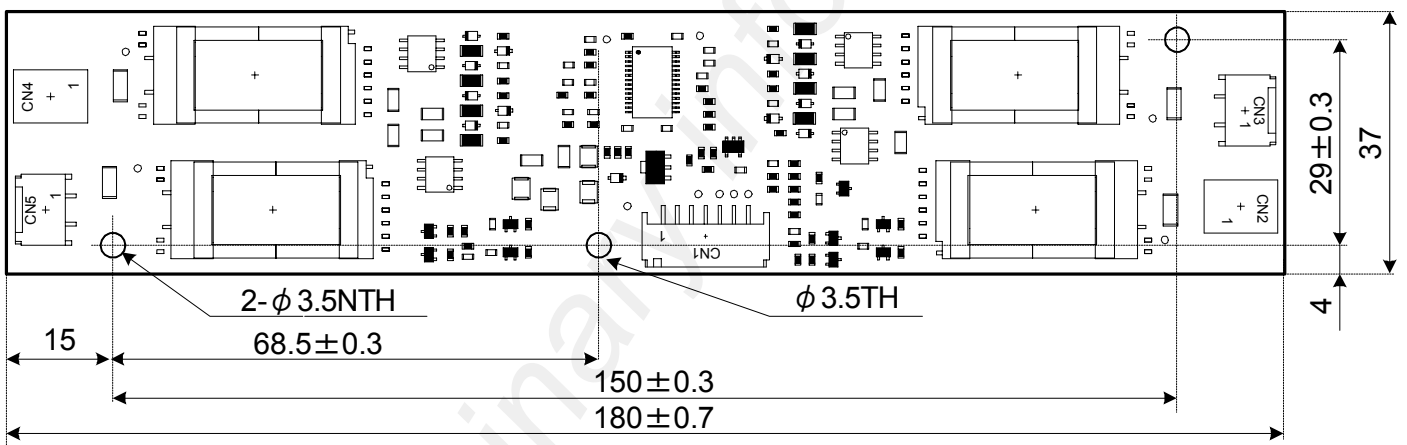
All mounting holes have to tighten the screws to protect from vibrations and shocks.



5-7. CXA-46012PJ108



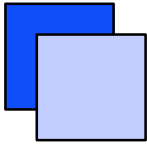
5-8. CXA-46012PJ109



unit in mm

tolerance is $\pm 0.5\text{mm}$ unless otherwise specified.

All mounting holes have to tighten the screws to protect from vibrations and shocks.



6.Pin Configuration

6-1.Input Connector Configuration

All New CXA series have same pin configuration for Input connector.

CN1: 53261-0771 / molex or S7B-PH-4-TB(LF)(SN)

Pin	Symbol	Specification	Note
CN1-1	Vin	10.8~13.2(Vdc)	Input Voltage
CN1-2			
CN1-3	GND	0(V)	GND
CN1-4			
CN1-5	Vrmt	0~0.8(Vdc) : OFF 2.0~Vin(Vdc): ON	Remote Control
CN1-6	Vbr	0~2.5(Vdc)	Brightness Control *Note4
	Rbr	0~10(kΩ)	
CN1-7	Vst (Output)	0(V) / 3(Vdc)	Alarm Signal *Note2

*Note2 : Alarm signal is active in abnormal condition.0(V) at normal operation.

6-2.Output Connector Configuration

6-2-1. CXA-16012PJ102

CN2: SM02B-BHSS-1 /JST

Pin	Symbol	Note
CNx-1	Vhigh	HV Output
CNx-2	Vlow	Lamp Return

6-2-2. CXA-26012PJ103

CN2,3: SM02(8.0)B-BHS-1 /JST

Pin	Symbol	Note
CNx-1	Vhigh	HV Output
CNx-2	N.C.	N.C.
CNx-3	Vlow	Lamp Return

6-2-3. CXA-26012PJ104

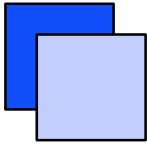
CN2: SM03(7-D1)B-BHS-1 /JST

Pin	Symbol	Note
CNx-1	Vhigh1	HV Output1
CNx-2	Vhigh2	HV Output2
CNx-3	N.C.	N.C.
CNx-4	Vlow	Lamp Return

6-2-4. CXA-26012PJ105

CN2,3: SM02(8.0)B-BHS-1 /JST

Pin	Symbol	Note
CNx-1	Vhigh	HV Output
CNx-2	N.C.	N.C.
CNx-3	Vlow	Lamp Return



6-2-5. CXA-46012PJ106

CN2,3,4,5: SM02B-BHSS-1 /JST

Pin	Symbol	Note
CNx-1	Vhigh	HV Output
CNx-2	Vlow	Lamp Return

6-2-6. CXA-46012PJ107

CN2,3,4,5: SM02(8.0)B-BHS-1 /JST

Pin	Symbol	Note
CNx-1	Vhigh	HV Output
CNx-2	N.C.	N.C.
CNx-3	Vlow	Lamp Return

6-2-7. CXA-46012PJ108

CN2,3: SM03(7-D1)B-BHS-1 /JST

Pin	Symbol	Note
CNx-1	Vhigh1	HV Output1
CNx-2	Vhigh2	HV Output2
CNx-3	N.C.	N.C.
CNx-4	Vlow	Lamp Return

6-2-8. CXA-46012PJ109

CN2: SM02B-BHSS-1 /JST

Pin	Symbol	Note
CN2-1	Vhigh1	HV Output1
CN2-2	Vhigh2	HV Output2

CN4: SM02B-BHSS-1 /JST

Pin	Symbol	Note
CN4-1	Vhigh3	HV Output3
CN4-2	Vhigh4	HV Output4

CN3: SM02(4.0)B-BHS-1 /JST

Pin	Symbol	Note
CN3-1	Vlow	Lamp Return1
CN3-2	Vlow	Lamp Return2

CN5: SM02(4.0)B-BHS-1 /JST

Pin	Symbol	Note
CN5-1	Vlow	Lamp Return3
CN5-2	Vlow	Lamp Return4

preliminary information