1. Scope

This applies to the CFL Inverter (cold-cathode tube inverter) HBL-0215.

- 2. Electrical Characteristics
 - a. Absolute Maximum Rating

Input	voltage)	5.5V	MAX.
Max.	output	power	0.6W	MAX.

b. Input/Output Characteristics

The measuring circuit and method shall be as set forth in Section 4. (Unless otherwise specified, $Ta = 25^{\circ}C$)

Values are obtained 3 minutes after the power is turned on.

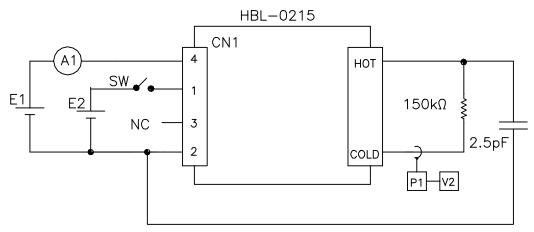
Item	Symbol	Specification	
Input Voltage	Vin	5.0V ± 5%	
Output current	lo	1.5mArms ± 10%	
Operating Frequency	f	160KHz ± 10%	
Output open voltage	Voc	700Vrms min (at ambient temperature 0°C)	
Input current	lin	200mA MAX (Vin = 4.75V)	
ON/OFF Function	ON/OFF	ON: ON/OFF terminal signal HIGH (2.5V~4V)	
		OFF: ON/OFF terminal signal LOW (0.7VMAX)	
		To turn on the inverter, apply voltage to the Vin terminal, then on the ON/OFF terminal.	

3. Input Interface Connection

CN1: SFW4R-2ST (FCI)

01111 011111 201 (101)			
Pin No.	Function		
1	ON/OFF		
2	GND		
3	NC		
4	Vin		

4. Electrical Characterists Measuring Circuit and Measuring Method



E1: DC regulated power supply 5.0V±2% E2: DC regulated power supply 3.0V±10%

V1: DC voltmeter 3400B (YHP) or equivalent

A1: DC ammeter Type 2011 Class 0.5 (YEW) or equivalent

P1: Probe P6021 (Tektronix) or equivalent

FILE NAME: ACAD\MXFMR\A3122001.DWG	SCALE: NONE REV: -	DATE: 10/25/99 SHEET 1 OF 3
TAMURA CORPORATION OF AMERICA 43352 BUSINESS PARK DRIVE • TEMECULA • CA • 92590	TITLE: HBL-0215	PIEZOELECTRIC INVERTER 2.5W/5V/500VAC/4mA
TEL: (909)699-1270 • FAX: 9096769482	DOCUMENT NUMBER:	P-A3-12200
CONTENTS OF THIS DRAWING ARE SUBJECT TO CHANCE WITHOUT PRIOR NOTICE		7 7 5 12200

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5. Reliability Test Item

ltem	Specification	
High Temperature Storage	Ta=70°C 240H	
Low Temperature Storage	Ta=-20°C 240H	
High Temperature and Humidity Storage	Ta=40°C 95% 240H	
Temperature Cycle	−20 ~ 70°C 5 Cycles	
High Temperature Operation	Ta=60°C Vin 5.25V lout 1.5mArms 500H (with equivalent load)	
ON/OFF test	1 ON, 1 OFF, 5000 cycles (at Vin=5.25V, lout=1.5mArms and equivalent load)	
Vibration	Acceleration 3G, Frequency 10~55Hz, Sweep 45 min, 3 axis, 1 time	
Shock	Acceleration 80G, Acting Time 11 ms 3 axis, 3 times	

After the end of each test, leave the product at room temperature and humidity for 24 hours. The Electrical and Mechanical characteristics shall remain within spec.

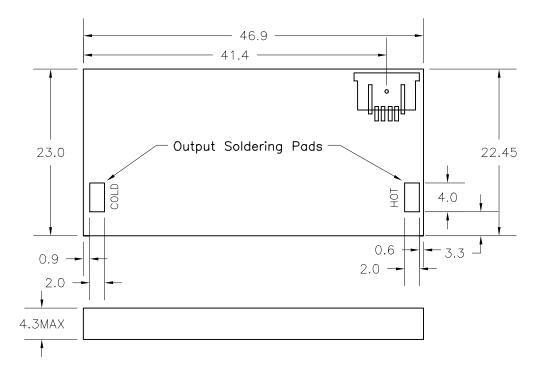
6. Precautions for Handling

Applying excessive shock or bending the unit may cause component damage. When transporting this product, use materials that will not develop an electrical charge. When handling this product, be sure to wear antistatic wrist bands or other protective equipment to prevent the product from being destroyed by any electric charge.

FILE NAME: ACAD\MXFMR\A3122002.DWG	SCALE: NONE REV: -	DATE: 10/25/99 SHEET 2 OF 3
TAMURA CORPORATION OF AMERICA	TITLE:	PIEZOELECTRIC INVERTER
43352 BUSINESS PARK DRIVE • TEMECULA • CA • 92590	HBL-0215	1.0W/3.6V/500VAC/2mA
TEL: (909)699−1270 • FAX: 9096769482	DOCUMENT NUMBER:	P-A3-12200
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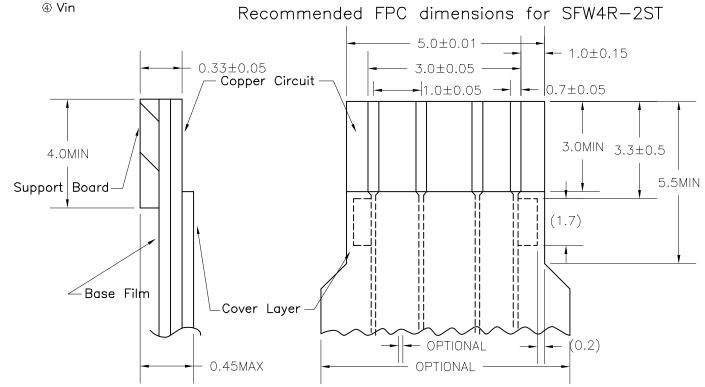
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7. Outline Dimensions



CN1: SFW4R-2ST (FCI) Mating FPC Output: Soldering Pad

- 1 ON/OFF
- © GNĎ
- 3 NC



FILE NAME: ACAD\MXFMR\A312203.DWG

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HBL-0215

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