PIEZOELECTRIC INVERTER 1.0W/3.6V/500VAC/2mA

1. Scope

This applies to the CFL Inverter (cold-cathode tube inverter) HBL-0219.

- 2. Electrical Characteristics
 - a. Absolute Maximum Rating

Input voltage			17V I	
Max.	output	power	2.2W	MAX.

b. Input/Output Characteristics

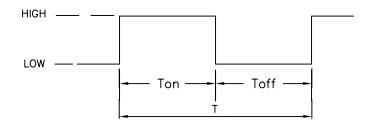
The measuring circuit and measuring method shall be as set forth in Clause 4. (Unless otherwise specified, $Ta = 25^{\circ}C$) Values are those obtained 3 minutes after the power is turned on.

Item	Specification	
Input Voltage	8.0V ~ 14V	
Output Current Detection	3.0 mArms \pm 10% (BLOFF:H=2.5~4.0V)	
Operating Frequency	100KHz ± 15%	
Output open voltage	1300Vrms min (at Ta=0°C)	
Input current	400mA MAX (Vin = 8.0V, BLOFF=H)	
ON/OFF function	ON: BLOFF terminal H=2.5V ~ 4.0V) OFF: BLOFF terminal I=0V ~0.8V)	
Standby Current	5μA MAX (BLOFF=L)	

Note: To start inverter, BLOFF terminal is high after Vin voltage reaches input voltage range.

c. Dimming

To use the dimming function, apply the following signal to the BLOFF terminal.

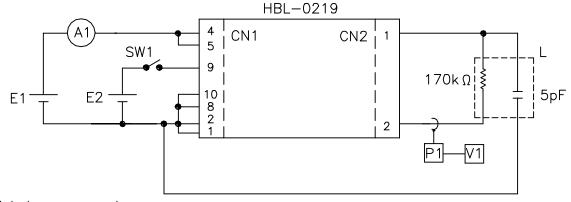


Frequency 100~250Hz Duty 30~95%, 100%

FILE NAME: ACAD\MXFMR\A3122041.DWG	SCALE: NONE REV: -	DATE: 10/13/99 SHEET 1 OF 3
TAMURA CORPORATION OF AMERICA 43352 BUSINESS PARK DRIVE • TEMECULA • CA • 92590	TITLE: HBL-0219	PIEZOELECTRIC INVERTER 1.0W/3.6V/500VAC/2mA
TEL: (909)699-1270 • FAX: 9096769482	DOCUMENT NUMBER:	P-A3-12204
CONTENTS OF THIS DRAWING ARE SUBJECT TO CHANCE WITHOUT PRIOR NOTICE		12201

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3. Measuring Circuit and Method for Electrical Characteristic



E1: DC regulated power supply E2: DC regulated power supply

V1: RMS voltmeter 3400B (YHP) or equivalent

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

P1: Probe P6021 (Tektronix) or equivalent

L: Equivalent Load $170K\Omega + 5pF$

4. Recommended Equivalent Load

Equivalent Resistive Load: 150 \sim 190k Parasitic Capacitance: 3 \sim 7pF Ω

5. Environmental Condition

a. Temperature

Operating Temperature: $0 \sim 55^{\circ}C$ Storage Temperature: $-20 \sim 70^{\circ}C$

b. Humidity

Operating Humidity: $20 \sim 80\%$ Storage Humidity: $5 \sim 90\%$

6. Reliability Test Item

ltem	Specification	
High Temperature Storage	Ta=70°C 240H	
Low Temperature Storage	Ta=-40°C 240H	
High Temperature and Humidity Storage	Ta=55°C 95% 240H	
High Temperature Operation	Ta=55°C Vin=14V lout=3.0mArms 500H	
	(with equivalent load)	
Vibration	Acceleration 3G, Frequency 10~55Hz,	
	Sweep 45 min, 3 axis, 3 times	
Shock	Acceleration 80G, Acting Time 11 ms	
	3 axis, 3 times	

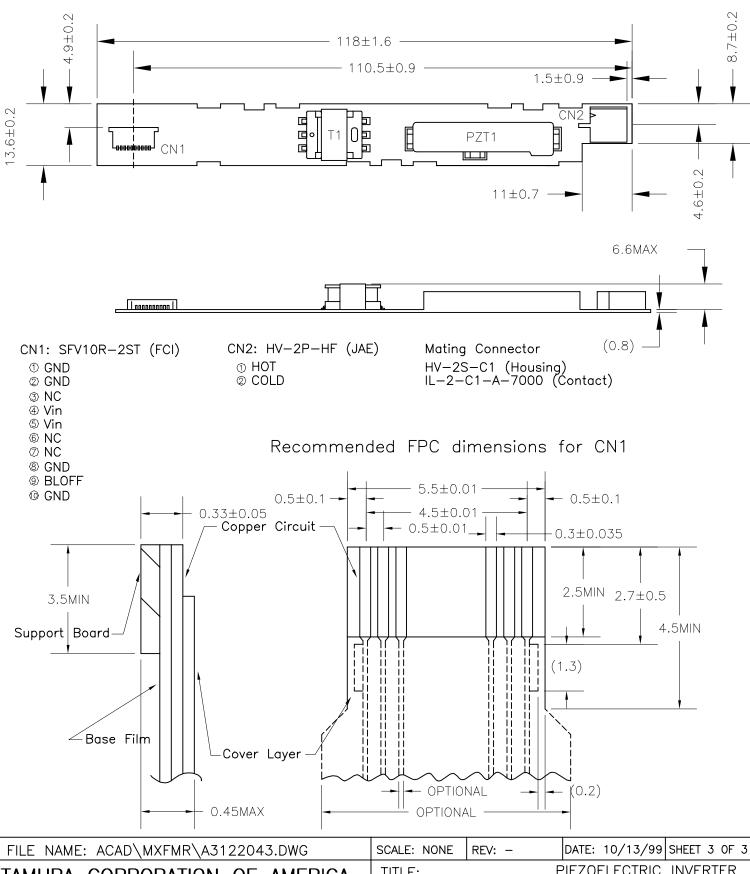
7. Precaution for Handling

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\A3122042.DWG	SCALE: NONE REV: -	DATE: 10/13/99 SHEET 2 OF 3
TAMURA CORPORATION OF AMERICA	TITLE:	PIEZOELECTRIC INVERTER
43352 BUSINESS PARK DRIVE • TEMECULA • CA • 92590	HBL-0219	1.0W/3.6V/500VAC/2mA
TEL: (909)699-1270 • FAX: 9096769482	DOCUMENT NUMBER:	P-A3-12204
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8. Outline Dimensions



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