

E2328

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Specifications and Applications Information

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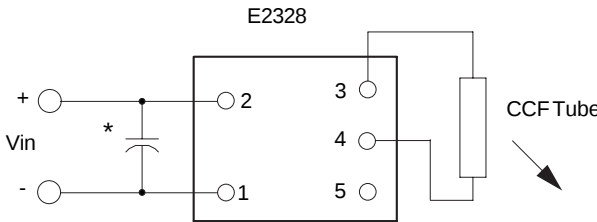
Preliminary

The E2328 dc to ac inverter is specifically designed to power the Sharp LQ057Q3DC02 LCD display to a moderate brightness level from a +5 volt dc source.

The E2328's small size makes it the ideal power source for applications where size, high efficiency and reliability are critical.

This standard inverter is designed to satisfy the most common cold-cathode lighting requirements for the LQ057Q3DC02 display. Custom units, providing different inputs, outputs or package refinements are available.

Connection Diagram

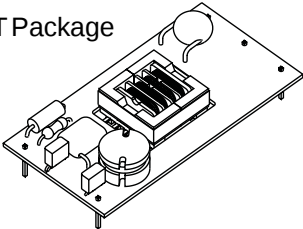


* Input bypass capacitor may be required (10uf - 100uf)

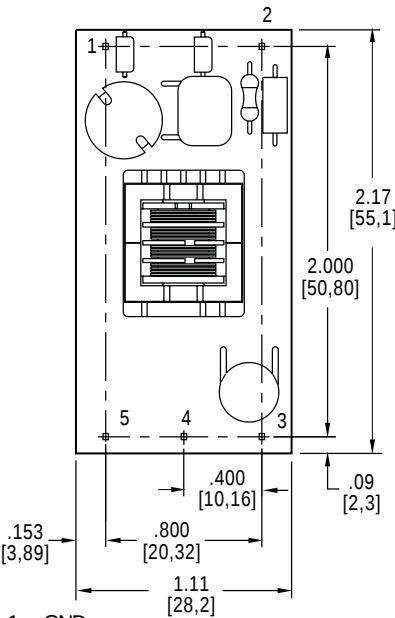
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Single Tube DC to AC Inverter

8mT Package



Package Configuration



- 1. GND
- 2. Vin(+)
- 3. ACcommon
- 4. ACout
- 5. NC



Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	V _{in}	-0.3 to +5.5	Vdc
Operating Temperature	T _o	0 to +70	°C
Storage Temperature	T _{stg}	-40 to +85	°C

Recommended Operating Conditions

Rating	Symbol	Value	Units
Input Voltage	V _{in}	+2.5 to 5.5	Vdc

Electrical Characteristics

Unless otherwise noted Vin = 5.00 Volts dc and Ta = 25°C.

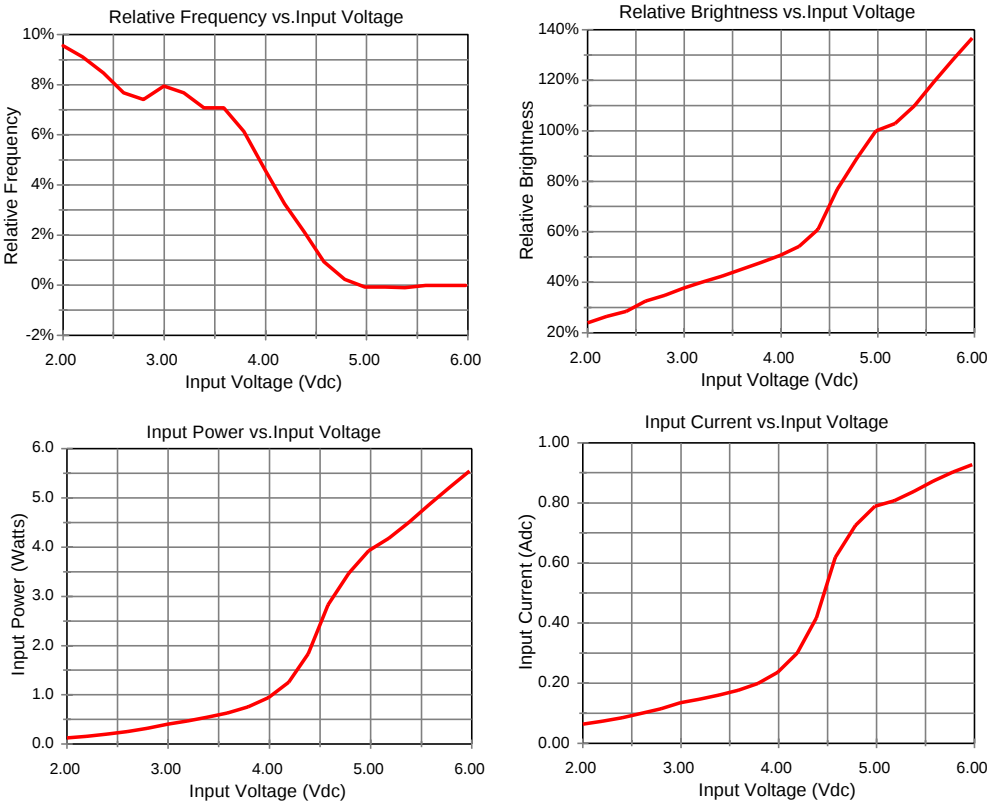
Characteristic	Symbol	Min	Typ	Max	Units
Input Current	I _{in}	-	.82	.93	Adc
Operating Frequency	F _o	33	38	43	KHz
Minimum Output Voltage	V _{out (min)}	1500	-	-	V _{rms}
Efficiency	η	-	88	-	%
Output Current	I _{out}	-	5.2	-	marms
Output Voltage (When powering a load simulating the referenced display).	V _{out}	-	690	-	V _{rms}

After tube has been allowed to warm-up for 5 minutes Specifications subject to change without notice.



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Typical Performance Curves



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