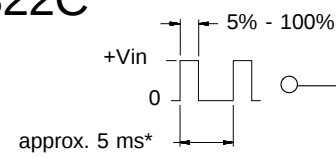
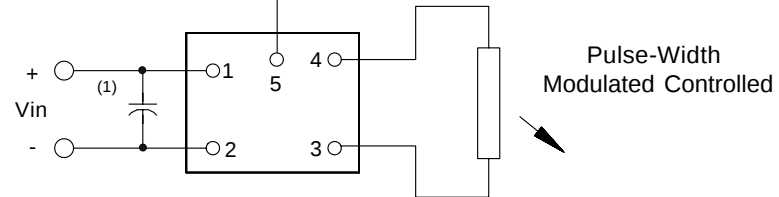


E2322C

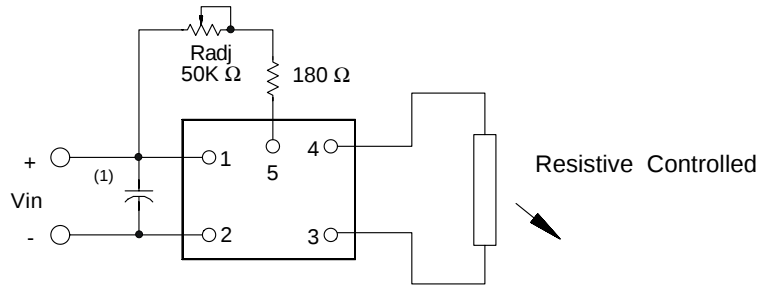
3 Dimming Options



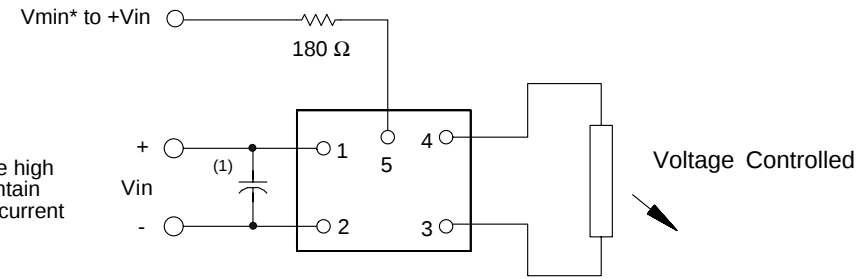
* should be selected to be compatible with LCD and display driver



* value should be low enough to maintain minimum tube current at minimum brightness



* Vmin should be high enough to maintain minimum tube current



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Made in U.S.A.



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<http://www.ergpower.com>

Specifications and Applications Information

06/14/01

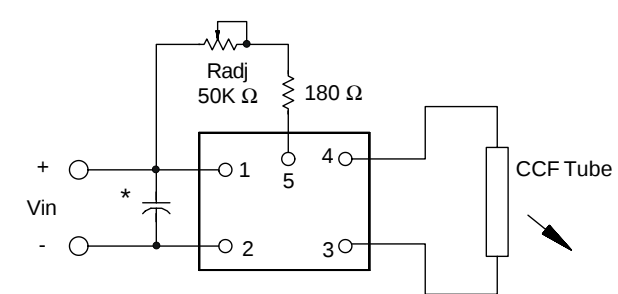
Preliminary

The E2322C (E200II Series) dc to ac inverter is specifically designed to power the Sharp LQ057Q3DC02 display to a moderate brightness level from a nominal +5 Volt DC source.

The E2322C's small size, encapsulated package and low input power requirements makes it the ideal power source for battery applications where small size, high efficiency and reliability are critical.

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

Connection Diagram

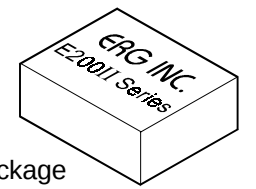


E2322C

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

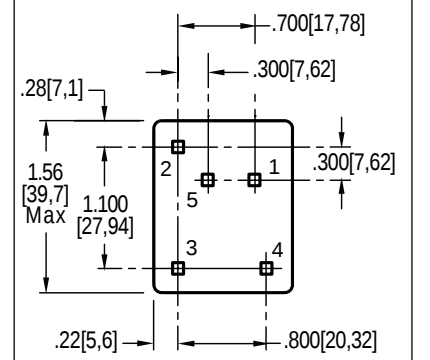
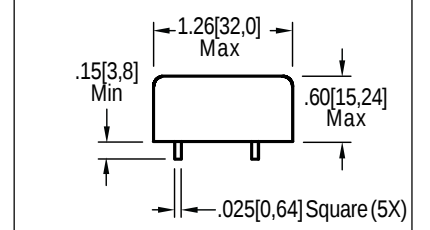
E2322C

Single Tube DC to AC Inverter

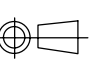


E200II Package

Package Configuration



1. Vin(+)
2. Vin(-)
3. Vout(AC)
4. Vout(AC)
5. Control



E2322C

Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	Vin	-0.3 to +5.5	Vdc
Operating Temperature	To	0 to +70	°C
Storage Temperature	Tstg	-40 to +85	°C

Recommended Operating Conditions

Rating	Symbol	Value	Units
Input Voltage	Vin	+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	Iin	-	.79	.89	Adc
Operating Frequency	Fo	32	37	42	KHz
Minimum Output Voltage	Vout (min)	1470	-	-	Vrms
Efficiency	η	-	91	-	%
Output Current	Iout	-	5.2	-	marms
Output Voltage (When Powering a load simulating the referenced display)	Vout	-	690	-	Vrms
Pin5 Input Current Requirement	-	-	28	-	madc

After tube has be allowed to warm-up for 5 minutes
External Disable Circuit shown on page 3.

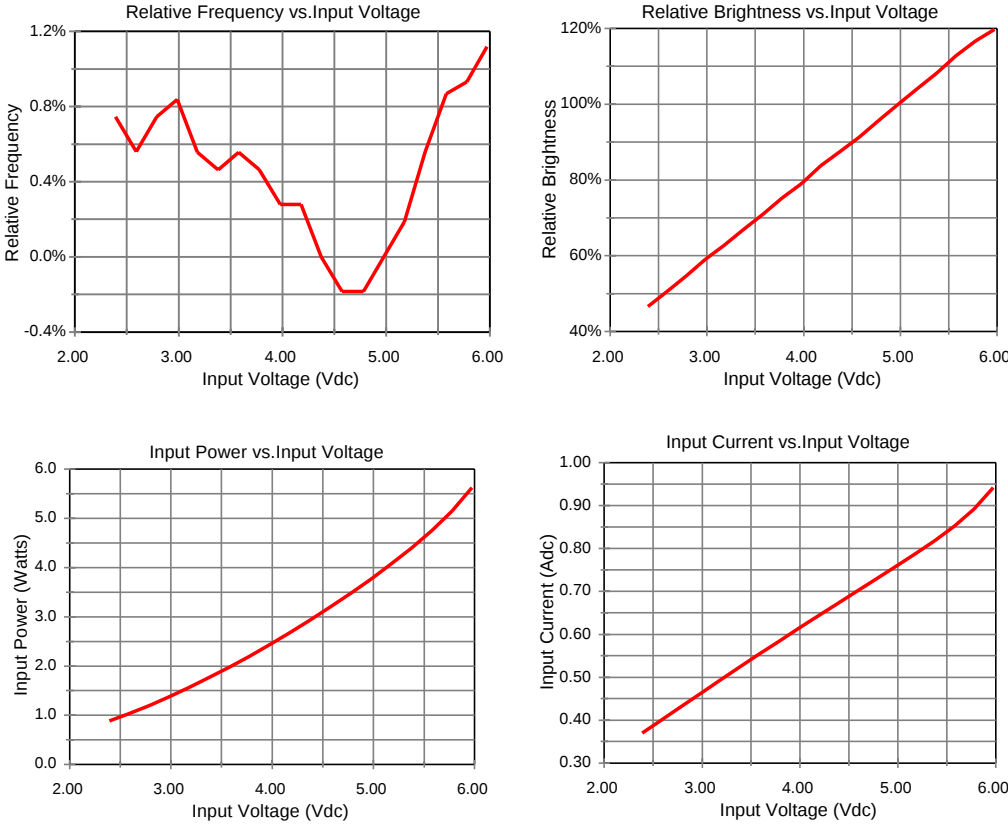
Specifications subject to change without notice.



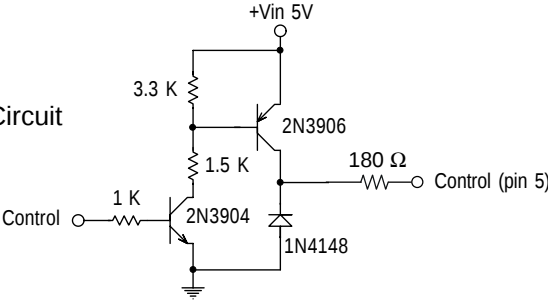
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Typical Performance Curves

E2322C



Disable Circuit



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