

8m122469

3 Dimming Options
(valid when the "C" jumper is removed)

5% - 100%
+Vin
0
approx. 5 ms*

+ Vin
(1)
- Vin

1 3
2

Pulse-Width Modulated Controlled

+Vin
100 Kohms*

+ Vin
(1)
- Vin

1 3
2

Resistive Controlled

Vmin* to +Vin

+ Vin
(1)
- Vin

1 3
2

Voltage Controlled

* 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

Note 1 Input by-pass capacitor (25 uf - 100uf) may be required to reduce reflected ripple.

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8m Class
DC to AC Inverter

8m Package

Specifications and
Applications Information

12/11/00 Preliminary

The ERG 8m122469 (8m Class) low profile dc to ac inverter is specifically designed to power the Toshiba LTM06C310 LCD display module to a moderate brightness level from a +12 volt dc source.

This low profile inverter features:

- ✓ Less Than 8 mm in Height
- ✓ LCD Module Specific
- ✓ Display Compatible Output Connector
- ✓ Firm Specifications
- ✓ Application Information
- ✓ Designed, Manufactured and Supported in the USA
- ✓ Custom Input and Output Voltages
- ✓ Flexible System Interface
- ✓ Notebook Display Head Compatible

Pin Descriptions

Input Connector	Output Connector
4 pins are 0.315" [8,00] Long, 0.025" [0,63] Square and are on 0.100" [2,54] Centers.	JST SM02B-BHSS-1-TB
Con1-1 Vin(+) Con1-2 GND Con1-3 Control * Con1-4 NC	Con2-1 ACout Con2-2 ACout
* Valid when the "C" Jumper is removed	

Package Configuration

8m122469

Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	Vin	-0.3 to +13.2	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	+6 to 13.2	Vdc

Electrical Characteristics

Unless otherwise noted Vin = 12.00 Volts dc and Ta = 25 °C

Characteristic	Symbol	Min	Typ	Max	Units
Input Current	Iin	-	.14	.17	Adc
Operating Frequency	Fo	24	29	34	KHz
Minimum Output Voltage	Vout (min)	1400	-	-	Vrms
Efficiency	η	-	73	-	%
Output Current	Iout	-	2.8	-	marms
Output Voltage (When powering a Load simulating the referenced display.)	Vout	-	440	-	Vrms
Pin3 Input Current Requirement	-	-	4	-	madc

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

Specifications subject to change without notice.

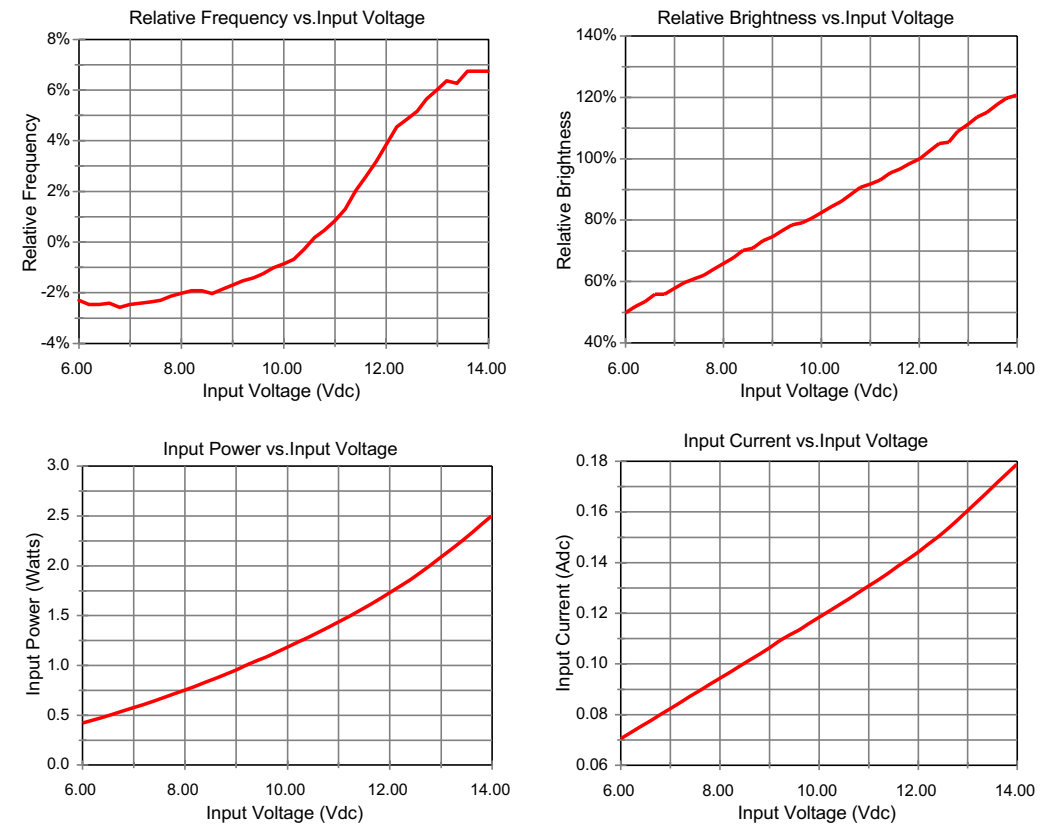


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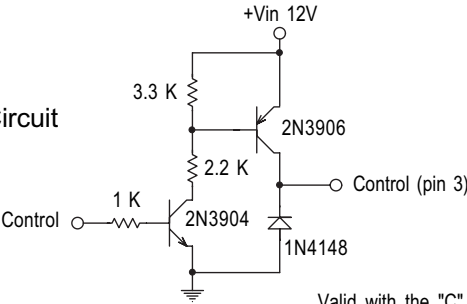
Made in USA

Typical Performance Curves

8m122469



Disable Circuit



Valid with the "C" jumper removed



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