

8m052568

3 Dimming Options

Pulse-Width Modulated Controlled

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

Resistive Controlled

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

Voltage Controlled

* 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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8m052568

8m Class
DC to AC Inverter

8m Package

Specifications and Applications Information

5/2/01 Preliminary

The ERG 8m052568 (8m Class) low profile dc to ac inverter is specifically designed to power the Sharp LM8V302 LCD display module to a moderate brightness level from a +5 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
Molex 22-05-3041	HONDA QZ-19-A3MYL
Con1-1 Vin(+) Con1-2 GND Con1-3 Control Con1-4 NC	Con2-1 ACout Con2-2 NC Con2-3 ACout

Package Configuration

Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	Vin	-0.3 to +6.0	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	-	.61	.67	Adc
Operating Frequency	Fo	26	31	36	KHz
Minimum Output Voltage	Vout (min)	1100	-	-	Vrms
Efficiency	η	-	90	-	%
Output Current	Iout	-	5.6	-	marms
Output Voltage (When powering a load simulating the referenced display)	Vout	-	490	-	Vrms
Pin3 Input Current Requirement	-	-	15	-	madc

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

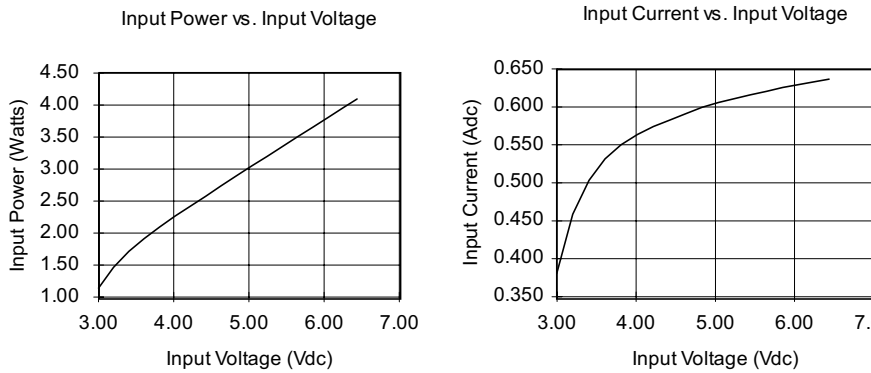
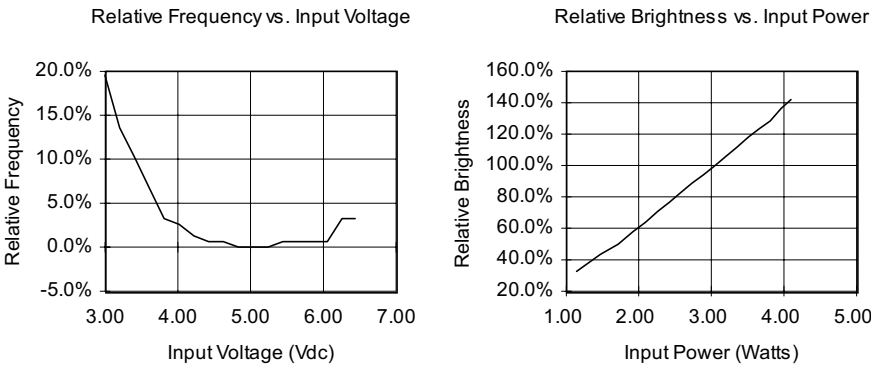
Specifications subject to change without notice.



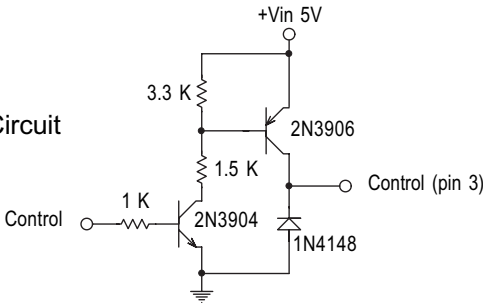
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Made in USA

Typical Performance Curves



Disable Circuit



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