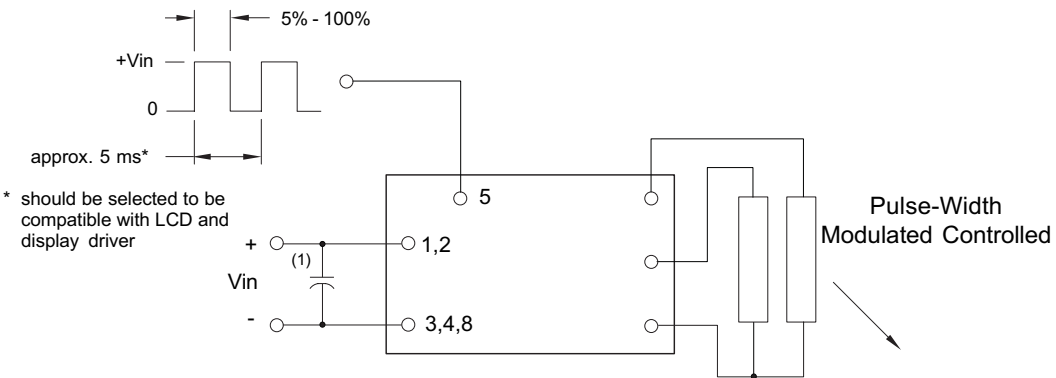


8mA22415

Dimming Option



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

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



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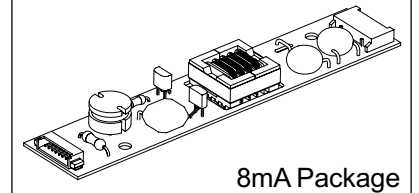
2601 Wayne St., Endicott NY 13760

607-754-9187 Fax 607-754-9255

<http://www.ergpower.com>

8mA22415

8m Class
DC to AC Inverter



8mA Package

Specifications and Applications Information

9/7/00

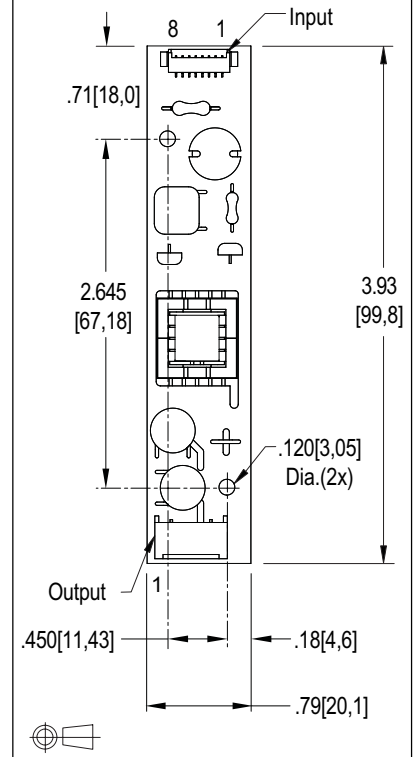
Preliminary

The ERG 8mA22415 (8m Class) low profile dc to ac inverter is specifically designed to power the Toshiba LTM08C351 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

Package Configuration



Pin Descriptions

Input Connector	Output Connector
Molex 53261-0890	JST SM04(4.0)B-BHS-1-TB
Con1-1 Vin(+)	Con2-1 ACout
Con1-2 Vin(+)	Con2-2 ACout
Con1-3 GND	Con2-3 NC
Con1-4 GND	Con2-4 Common
Con1-5 Control	
Con1-6 NC	
Con1-7 NC	
Con1-8 GND	



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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 V_{in} = 5.00 Volts dc and T_a = 25 °C

Characteristic	Symbol	Min	Typ	Max	Units
Input Current	I _{in}	-	1.15	1.3	A _{dc}
Operating Frequency	F _o	43	48	53	KHz
Minimum Output Voltage	V _{out} (min)	1500	-	-	V _{rms}
Efficiency	η	-	77	-	%
Output Current per tube	I _{out}	-	6.3	-	ma _{rms}
Output Voltage (When powering a Load simulating the referenced display.)	V _{out}	-	350	-	V _{rms}
Pin5 Input Current Requirement	-	-	11	-	ma _{dc}

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

Specifications subject to change without notice.



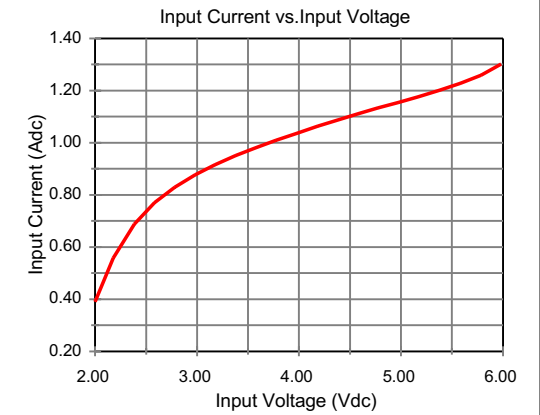
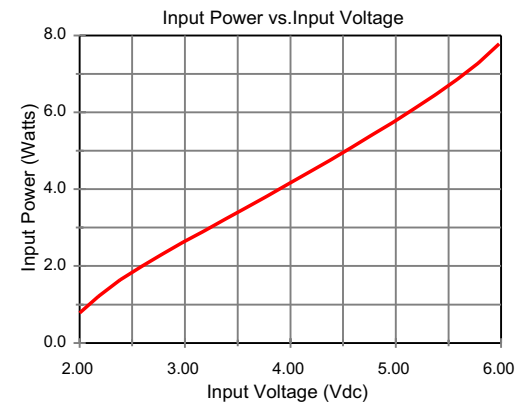
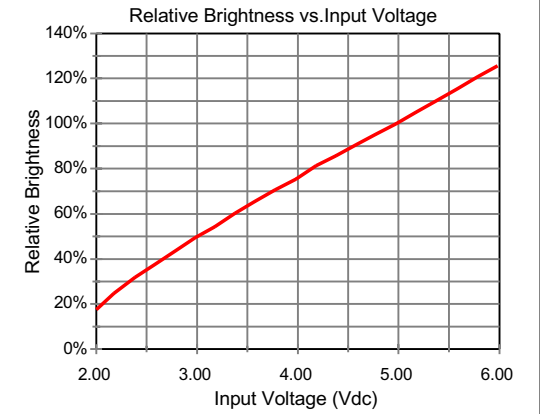
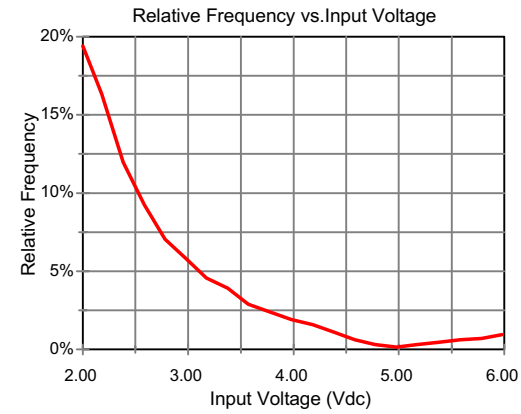
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Made in USA

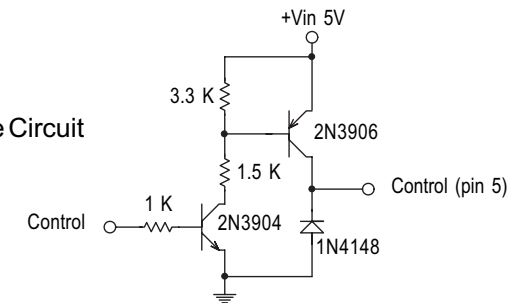
page 2.

Typical Performance Curves

8mA22415



Disable Circuit



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page 3.