

8m052519

3 Dimming Options

(valid when the "C" jumper is removed)

+Vin

5% - 100%

approx. 5 ms*

+

Vin

-

1

3

2

Pulse-Width

Modulated Controlled

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

+Vin

100 Kohms*

+

Vin

-

1

3

2

Resistive Controlled

Vmin* to +Vin

+

Vin

-

1

3

2

Voltage Controlled

* 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.

ERG

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8m052519

8m Class

DC to AC Inverter

8m Package

Specifications and Applications Information

6/15/01 Preliminary

The ERG 8m052519 (8m Class) low profile dc to ac inverter is specifically designed to power the EDT 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
4 pins are 0.315" [8,00] Long, 0.025" [0,63] Square and are on 0.100" [2,54] Centers.	JAE IL-G-4P-S3L2-E
Con1-1 Vin(+) Con1-2 GND Con1-3 Control * Con1-4 N/C	Con2-1 ACout Con2-2 N/C Con2-3 N/C Con2-4 ACout
* Valid when the "C" Jumper is removed	

Package Configuration

1 2 3 4

Input

.55 [14,0]

2.35 [59,7]

.120 [3,05] DIA.(2X)

Output

.55 [14,0]

.12 [3,05]

.79 [20,1]

3.58 [90,9]

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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	lin	-	.41	.48	Adc
Operating Frequency	Fo	34	39	44	KHz
Minimum Output Voltage	Vout (min)	1000	-	-	Vrms
Efficiency	η	-	73	-	%
Output Current	Iout	-	5	-	marms
Output Voltage (when Powering a load simulating the referenced display)	Vout	-	300	-	Vrms
Pin3 Input Current Requirement	-	-	11	-	madc

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

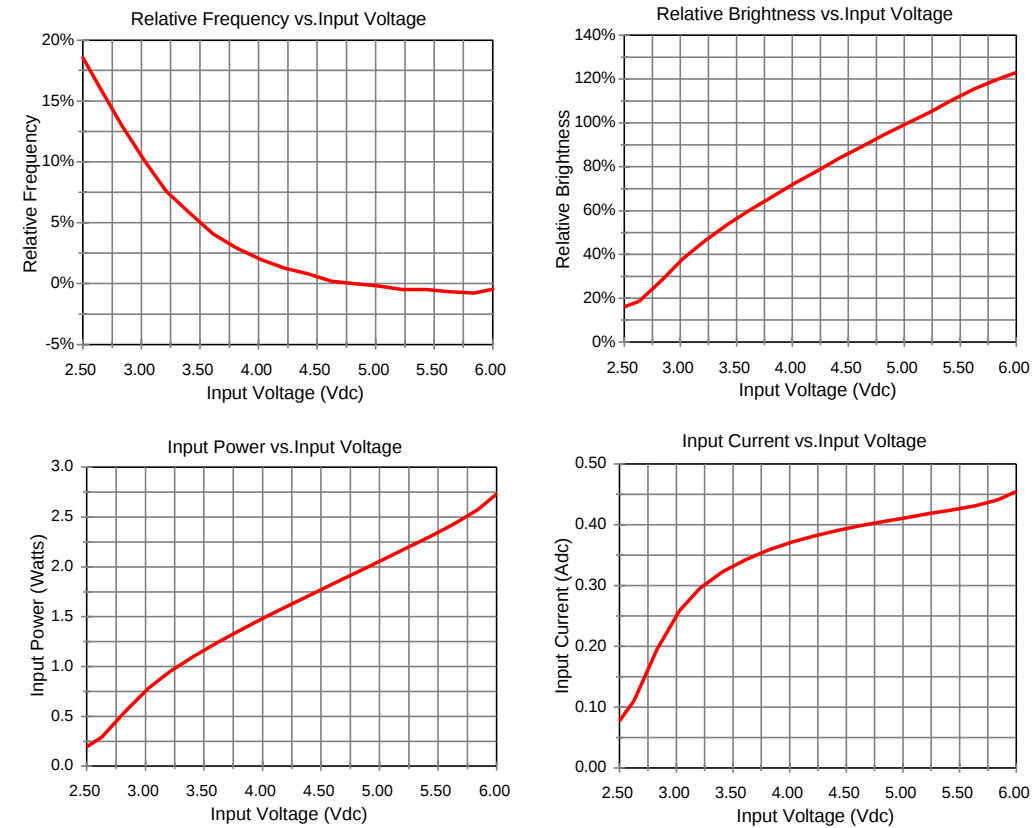
Specifications subject to change without notice.



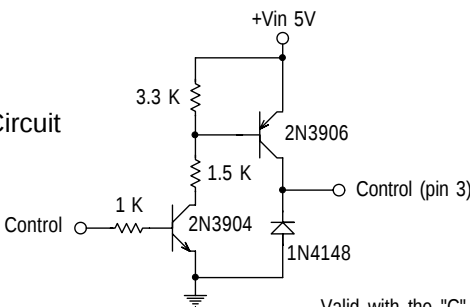
Endicott Research Group, Inc.

Made in USA

Typical Performance Curves



Disable Circuit



Valid with the "C" jumper removed



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