

8m052329

3 Dimming Options

The diagram illustrates three different dimming methods for the 8m052329 device, which is represented as a rectangular block with pins 1, 2, and 3.

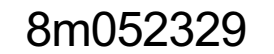
- Pulse-Width Modulated Controlled:** This method uses a pulse-width modulated (PWM) signal applied to pin 3. The signal is shown as a square wave with a duty cycle of 5% to 100% and a period of approximately 1.5 ms. The input voltage is +Vin, and the output is connected to a load resistor. A note indicates that the signal should be compatible with LCD and display drivers.
- Resistive Controlled:** This method uses a resistive divider network to control the dimming. A 100 Kohms resistor is connected between pin 3 and +Vin. The input voltage is +Vin, and the output is connected to a load resistor. A note indicates that the resistor value should be low enough to maintain minimum tube current at minimum brightness.
- Voltage Controlled:** This method uses a voltage divider network to control the dimming. A resistor is connected between pin 3 and +Vin, and another resistor is connected between pin 3 and -Vin. The input voltage is +Vin, and the output is connected to a load resistor. A note indicates that 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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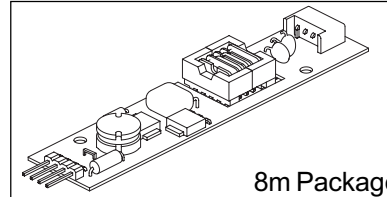
2601 Wayne St., Endicott NY 13760

607-754-9187



8m Class

DC to AC Inverter

[illegible]

Specifications and Applications Information

Preliminary

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

4 pins are 0.315" [8,00] Long,
0.025" [0,63] Square and are
on 0.100" [2,54] Centers.

Mitsumi
M60-04-30-134P

Con1-1	Vin(+)
Con1-2	GND
Con1-3	Control
Con1-4	NC

Con2-1	ACout
Con2-2	NC
Con2-3	NC
Con2-4	ACout

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	-	.56	.64	Adc
Operating Frequency	Fo	29	34	39	KHz
Minimum Output Voltage	Vout (min)	1100	-	-	Vrms
Efficiency	η	-	74	-	%
Output Current	Iout	-	5.3	-	marms
Output Voltage (When Powering a Load simulating the referenced display)	Vout	-	390	-	Vrms

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

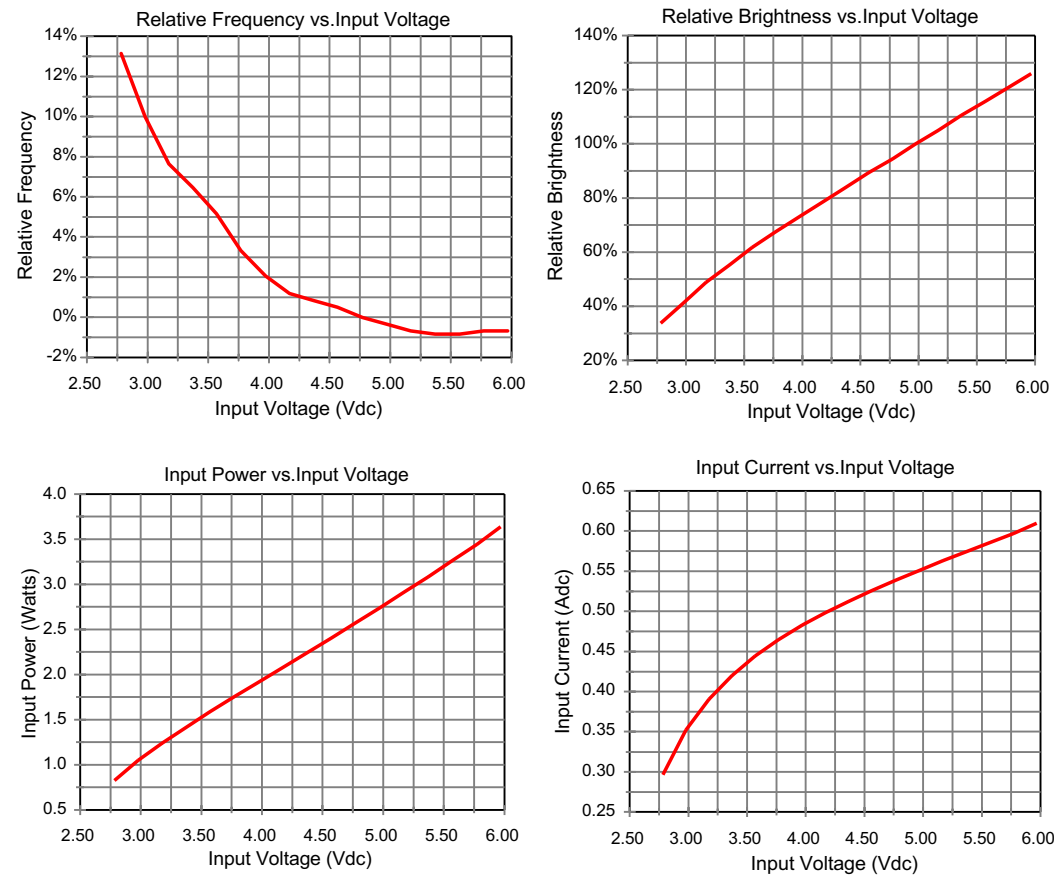
Specifications subject to change without notice.



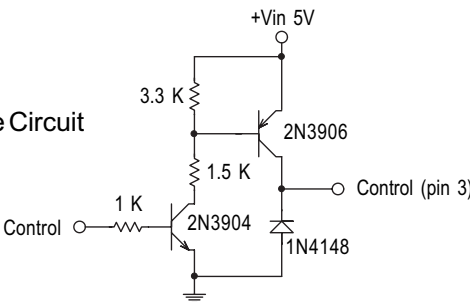
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Made in USA

Typical Performance Curves



Disable Circuit



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