

3 Dimming Options

(valid when the "C" jumper is removed)

The diagram illustrates three different dimming methods for the 8m121980 tube, which is represented as a central rectangular component with pins 1, 2, and 3. Each method includes a power supply section with a +Vin input and a Vin input, and a bypass capacitor labeled (1).

- Pulse-Width Modulated Controlled:** This method uses a pulse-width modulated signal applied to pin 3. A graph shows a square wave between +Vin and 0V with a period of approximately 1.5 ms. The signal range is 0% to 100%.
- Resistive Controlled:** This method uses a resistive divider network. A 100 Kohms resistor is connected between +Vin and pin 3. The Vin input is also connected to pin 3.
- Voltage Controlled:** This method uses a voltage divider network. A resistor labeled Vmin* is connected between +Vin and pin 3. The Vin input is also connected to pin 3.

* 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.

8m121980

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Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	Vin	-0.3 to +15	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	lin	-	0.13	0.15	Adc
Operating Frequency	Fo	22	27	32	KHz
Minimum Output Voltage	Vout (min)	1000	-	-	Vrms
Efficiency	η	-	87		%
Output Current	Iout	-	5.4	-	marms
Output Voltage (When Powering a Hitachi LMG6911 display)	Vout	-	250	-	Vrms

After tube has been allowed to warm-up for 5 minutes

Specifications subject to change without notice

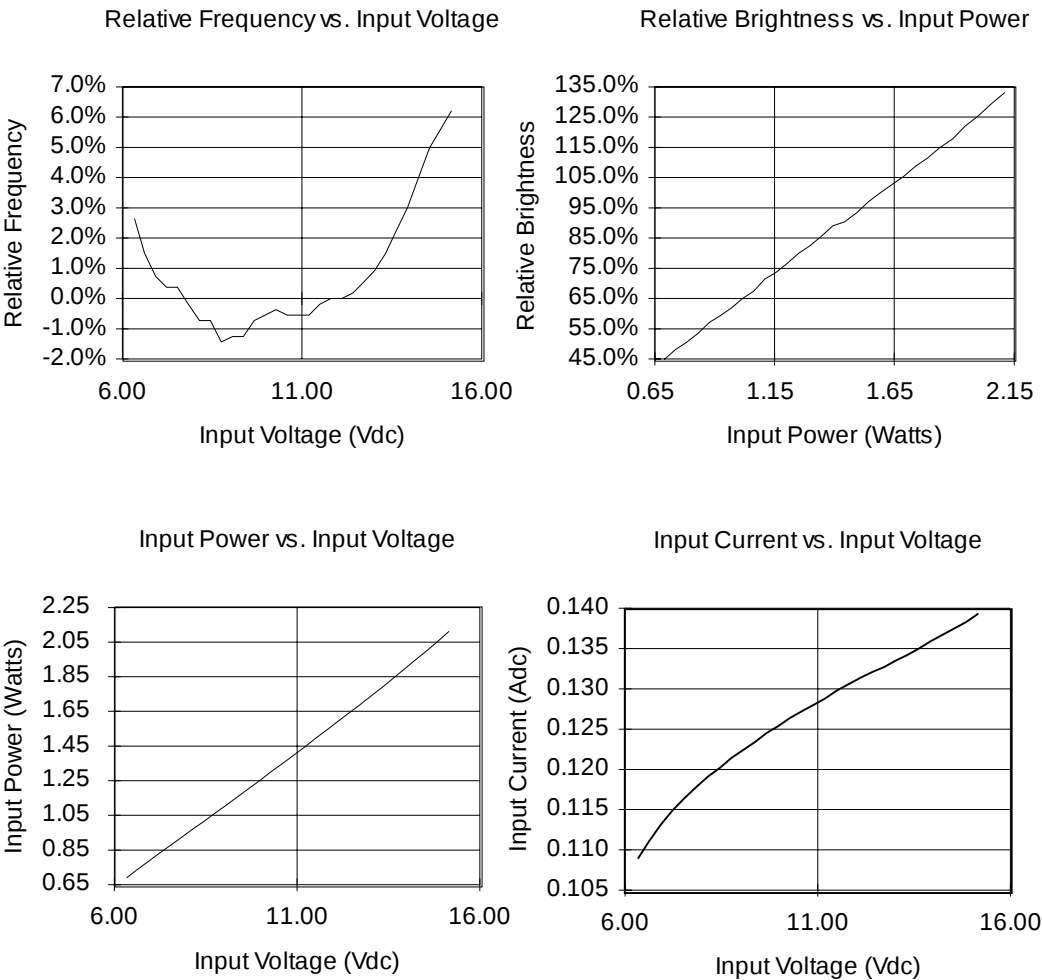


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Made in USA

8m121980

Typical Performance Curves



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