

8m122348

3 Dimming Options (valid when the "C" jumper is removed)

Pulse-Width Modulated Controlled

The diagram shows a pulse-width modulated (PWM) signal source connected to pin 3. The signal is a square wave with a duty cycle of 5% to 100% and a period of approximately 1.5 ms. The input voltage is labeled +Vin. A capacitor (1) is connected between pins 1 and 2, with the positive terminal at pin 1. The input voltage Vin is applied across this capacitor. The tube is connected to a load resistor.

Resistive Controlled

The diagram shows a resistive dimming circuit. A resistor labeled 100 Kohms* is connected between pin 3 and the +Vin input. The input voltage Vin is applied across a capacitor (1) connected between pins 1 and 2. The tube is connected to a load resistor.

Voltage Controlled

The diagram shows a voltage-controlled dimming circuit. The input voltage Vin is applied across a capacitor (1) connected between pins 1 and 2. The tube is connected to a load resistor.

*** 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.

Endicott Research Group, Inc.

2601 Wayne St., Endicott NY 13760

607-754-9187



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Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	Vin	-0.3 to +13.2	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	Iin	-	.37	.42	Adc
Operating Frequency	Fo	44	49	54	KHz
Minimum Output Voltage	Vout (min)	1300	-	-	Vrms
Efficiency	η	-	81	-	%
Output Current	Iout	-	6.2	-	marms
Output Voltage (When powering a load simulating the referenced display)	Vout	-	580	-	Vrms
Pin3 Input Current Requirement	-	-	12	-	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.

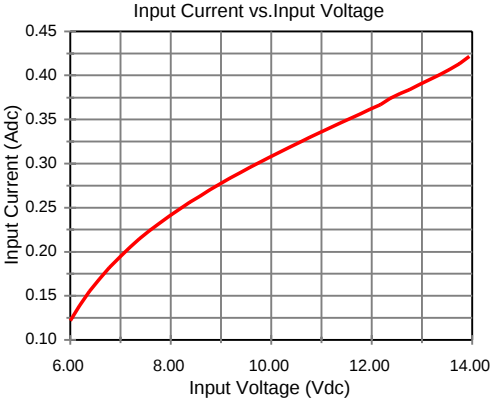
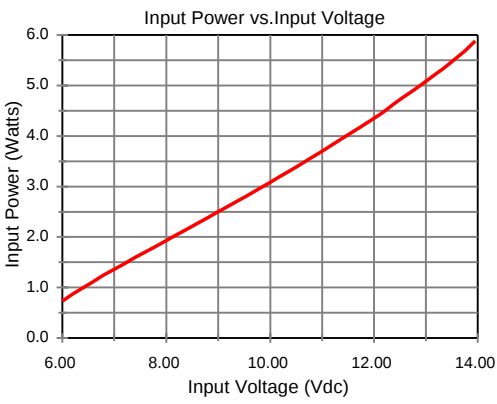
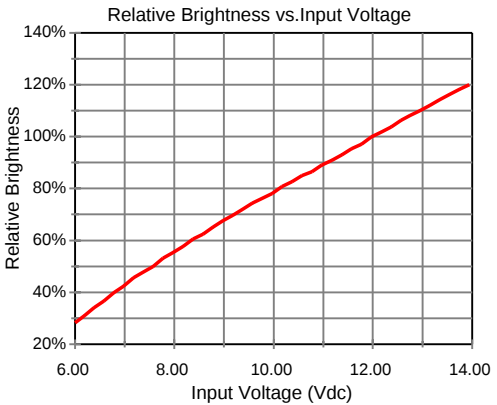
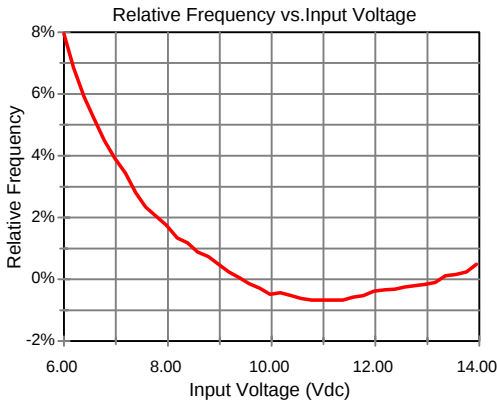


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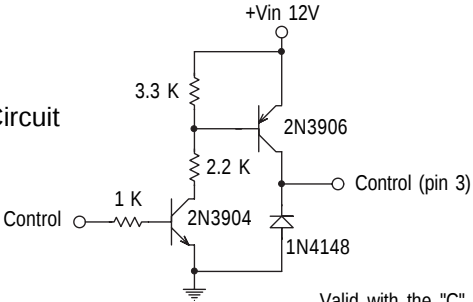
Made in USA

Typical Performance Curves

8m122348



Disable Circuit



Valid with the "C" jumper removed



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