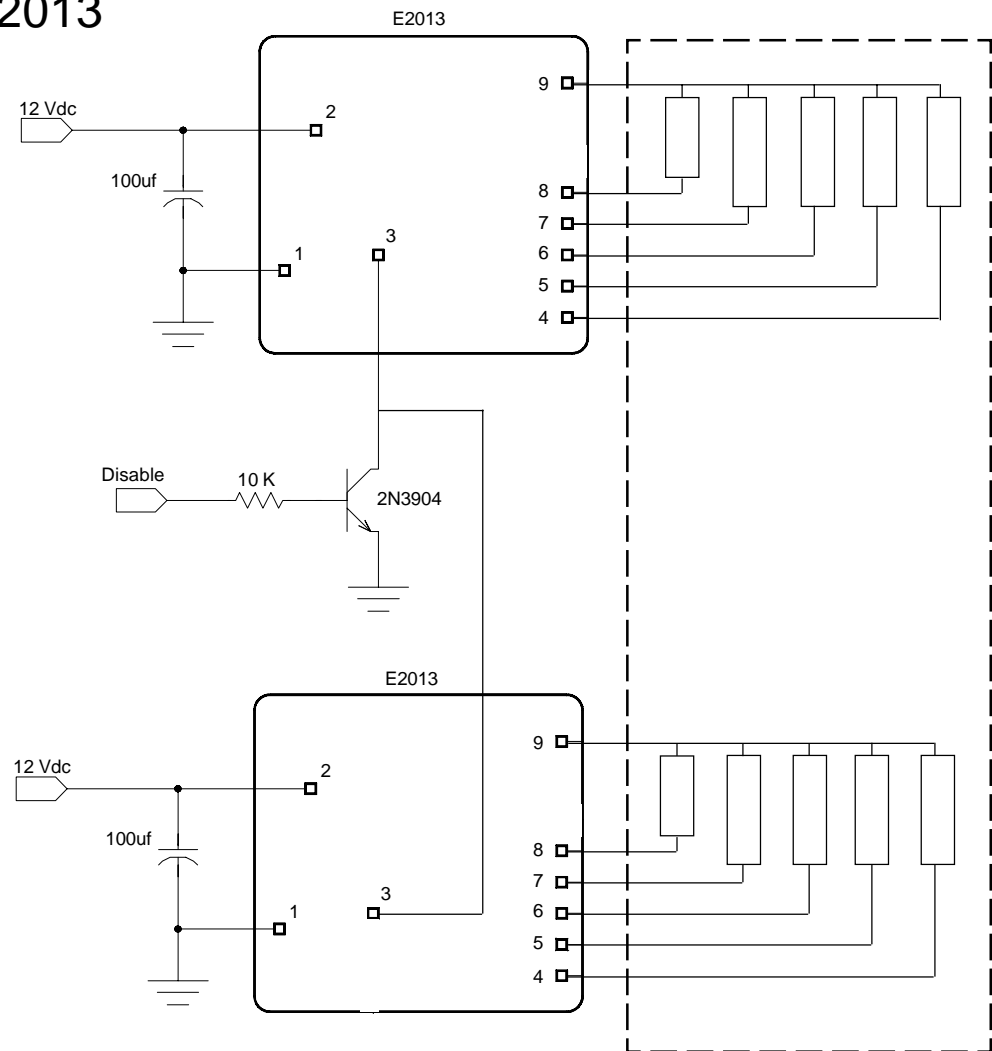


E2013



Application using 2 E2013 Inverters to light all 10 CCF tubes in the Landmark BL-C053C backlight module.



Endicott Research Group, Inc.
 2601 Wayne St., Endicott NY 13760
 607-754-9187



Endicott Research Group, Inc.

2601 Wayne St., Endicott NY 13760
 607-754-9187 Fax 607-754-9255
<http://www.ergpower.com>

E2013

Specifications and Applications Information

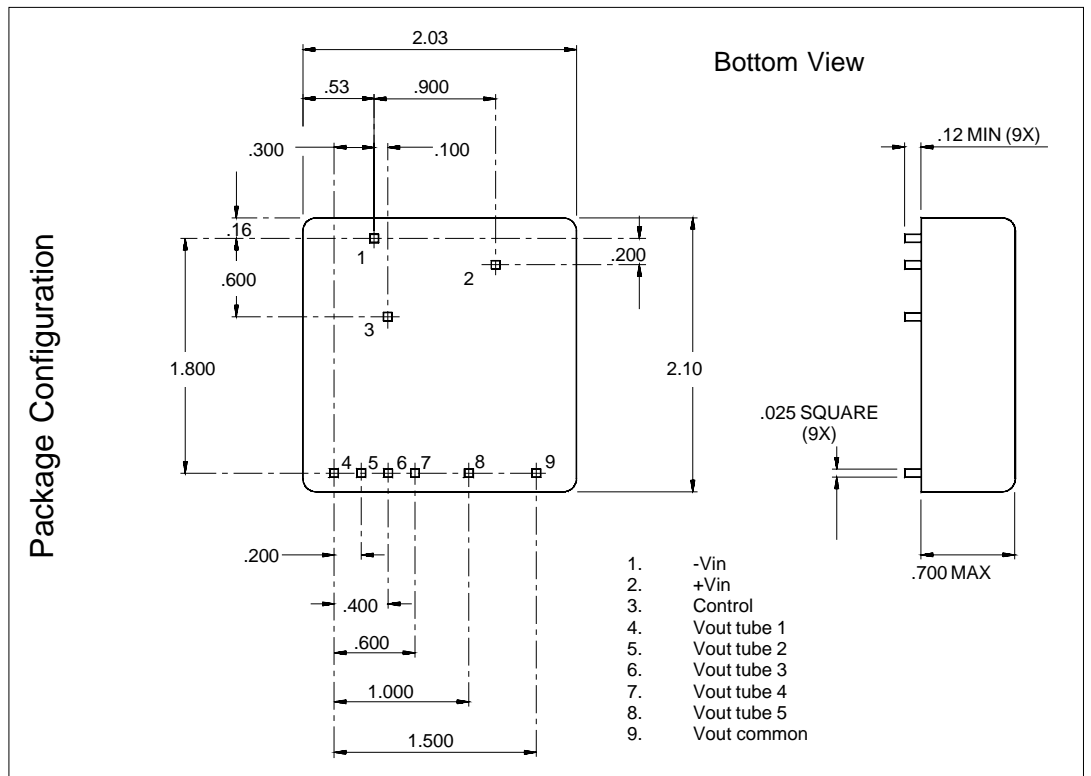
2/24/98

Preliminary

Five Tube DC to AC Inverter

The ERG E2013 dc to ac inverter is specifically designed to power 5 of the 10 CCF tubes contained in the Landmark BL-C053C backlight module to a nominal brightness level from a +12 volt dc source.

The E2013's small size and encapsulated package makes it the ideal power source for applications where small size, high efficiency and reliability are critical.



Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	Vin	-0.3 to +13.5	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	+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
INVERTER SECTION	Input Current	lin	-	1.18	1.3	Adc
	Operating Frequency	Fo	34	39	44	KHz
	Tube Starting Voltage *	Vstart	1130	-	-	Vrms
	Inverter Efficiency	η	-	88	-	%
	Tube Operating Current (per tube) Output pins 4-7 Output pin 8	Io	-	6.75 4.75	-	mArms
	Tube Sustaining Voltage ** (per tube) Output pins 4-7 Output pin 8	Vs	-	395 375	-	Vrms
SHUT-DOWN SECTION	CCFT Control Level (Pin 3) CCFT Output Off CCFT Output On		2.2		1.5	Vdc
	CCFT Control Pin Sink Current			1.1	1.4	mAdc

After tube has been allowed to warm up for 5 minutes.
* Valid over entire operating temp. range

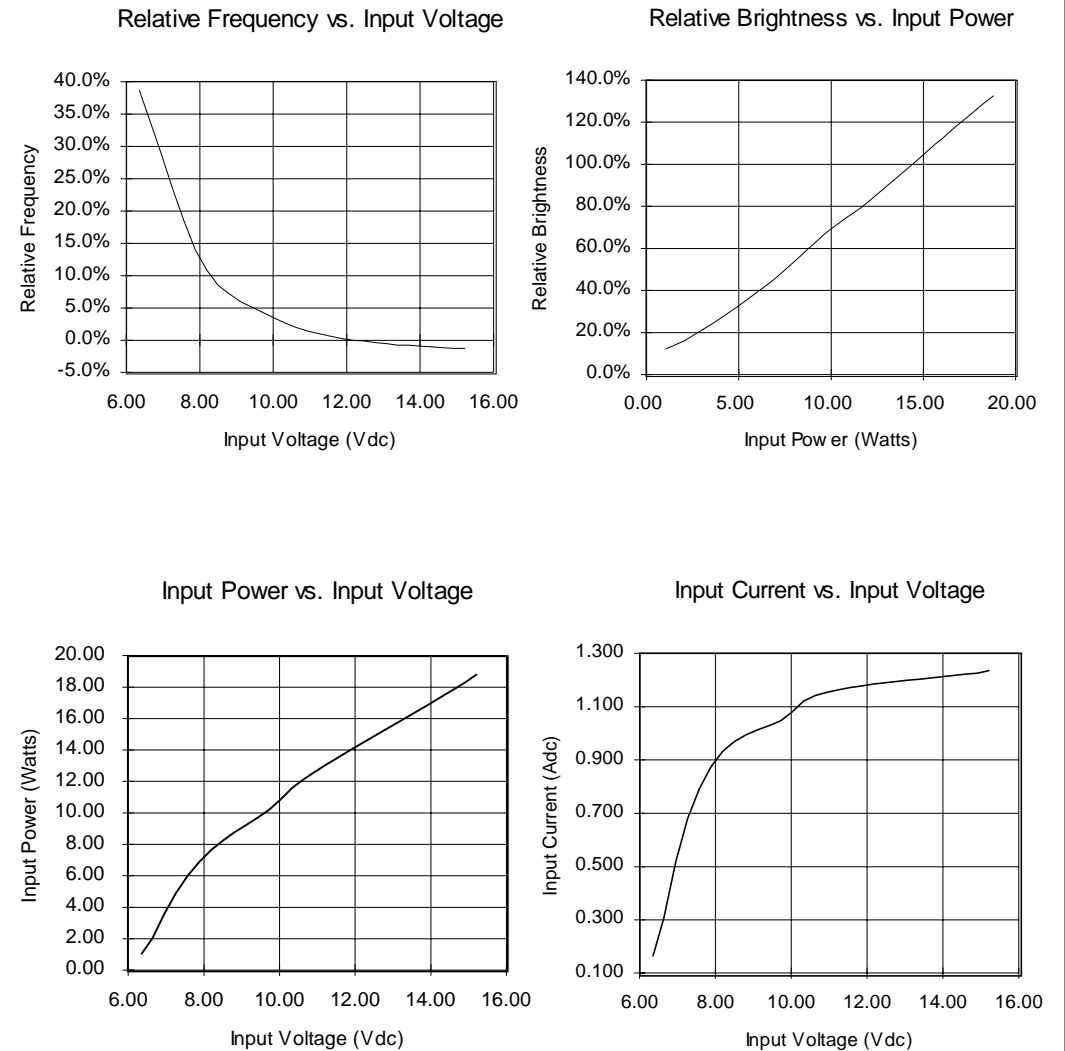
** Measured, not guaranteed when powering the Landmark BL-C053C CCFL backlight module.



Endicott Research Group, Inc.

Made in USA

Typical Performance Curves



Endicott Research Group, Inc.