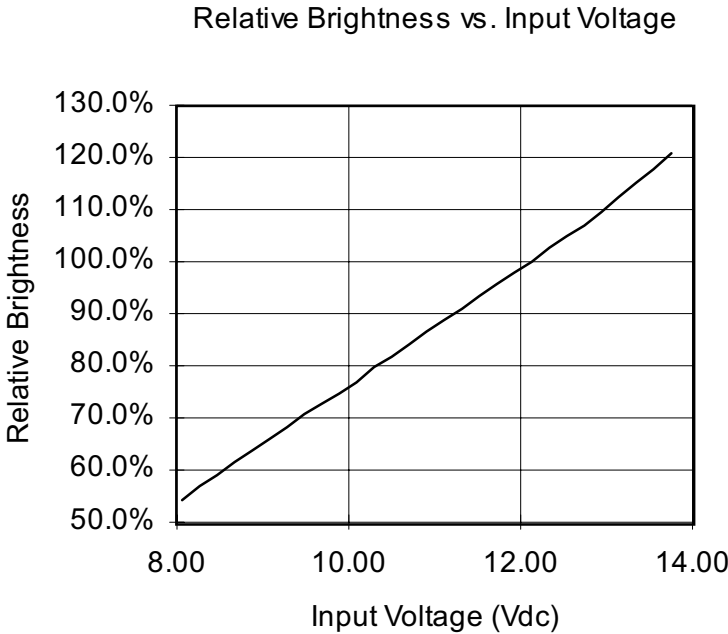


E2080



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

Made in U.S.A.



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Specifications and Applications Information

05/15/00

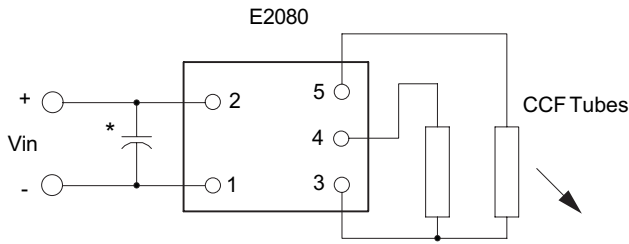
Preliminary

The E2080 dc to ac inverter is specifically designed to power a wide range of LCD displays with similar CCFL's to a moderate brightness level from a +12 volt dc source.

The E2080's small size makes it the ideal power source for applications where size, high efficiency and reliability are critical.

This inverter is designed to satisfy the most common cold-cathode lighting requirements for various displays. Variations, providing different inputs, outputs or package refinements are available.

Connection Diagram

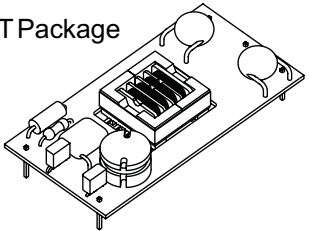


* Input bypass capacitor may be required (10uf - 100uf)

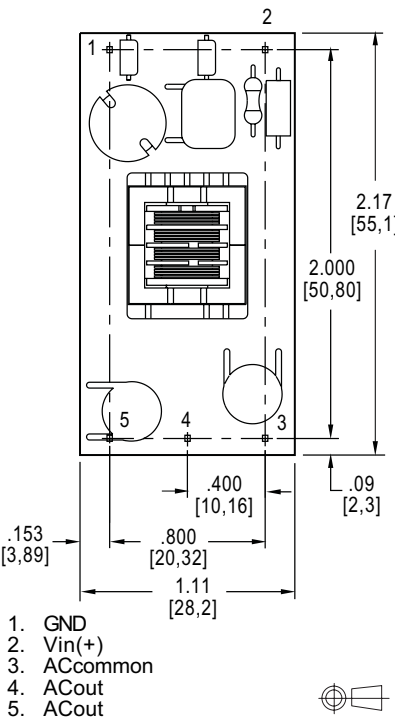
E2080

Two Tube DC to AC Inverter

8mT Package



Package Configuration



E2080

Absolute Maximum Ratings

Rating	Symb	Value	Units
Input Voltage Range	Vin	-0.3 to +14	Vdc
Operating Temperature	To	0 to +70	°C
Storage Temperature	Tstg	-40 to +85	°C

Recommended Operating Conditions

Rating	Symb	Value	Units
Input Voltage	Vin	+8 to 13.2	Vdc

Electrical Characteristics

Unless otherwise noted Vin = 12.00 Volts dc and Ta = 25°C

Characteristic	Symb	Min	Typ	Max	Units
Input Current	Iin	-			Adc
A			0.55	0.61	
B			0.35	0.39	
C			0.32	0.36	
Operating Frequency	Fo				KHz
A		40	46	52	
B		47	53	59	
C		39	45	51	
Tube Starting Voltage	Vstart	1250	-	-	Vrms
Efficiency	η	-			%
A			80		
B			75		
C			70		
Output Current	Iout	-		-	marms
A (x2)			5.0		
B			6.0		
C			5.0		
Output Voltage	Vout	-	525	-	Vrms
A, B, C					

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

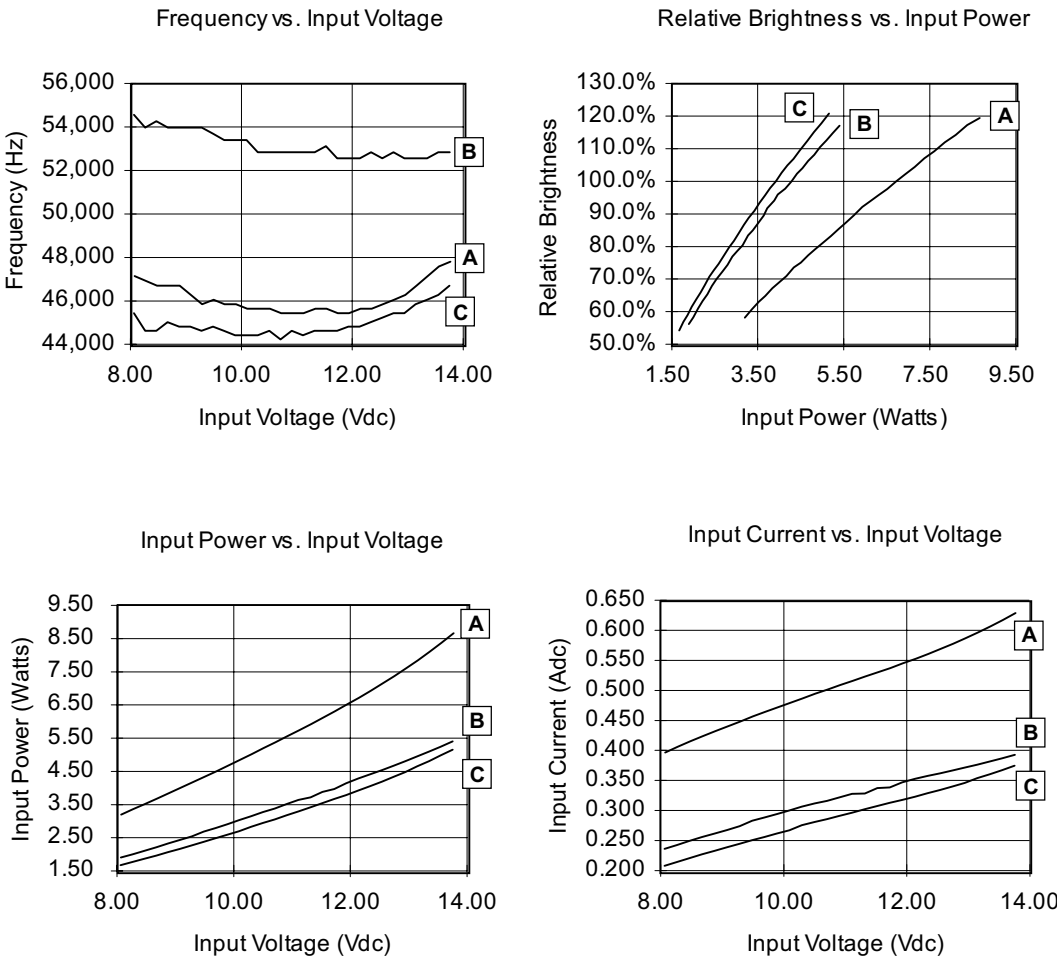
A - Two Outputs Connected.
B - One Output Connected, One Output Open.
C - One Output Connected, One Output Tied to Vout (Common).



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Typical Performance Curves



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