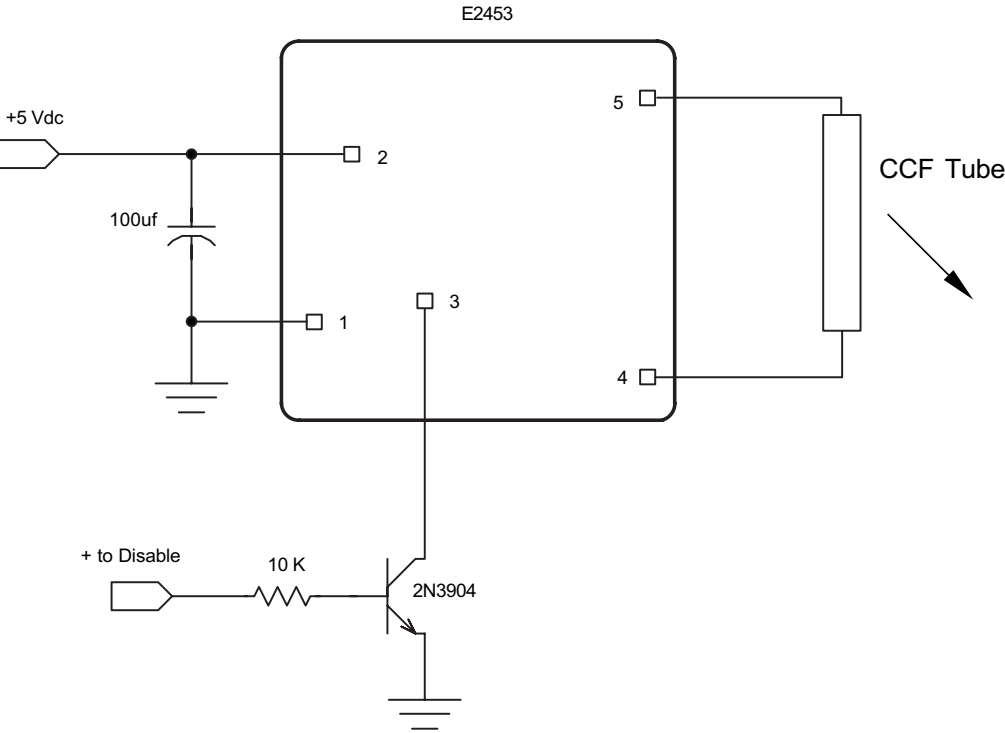


E2453

Connection Diagram



Endicott Research Group, Inc.
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E2453

Specifications and
Applications Information

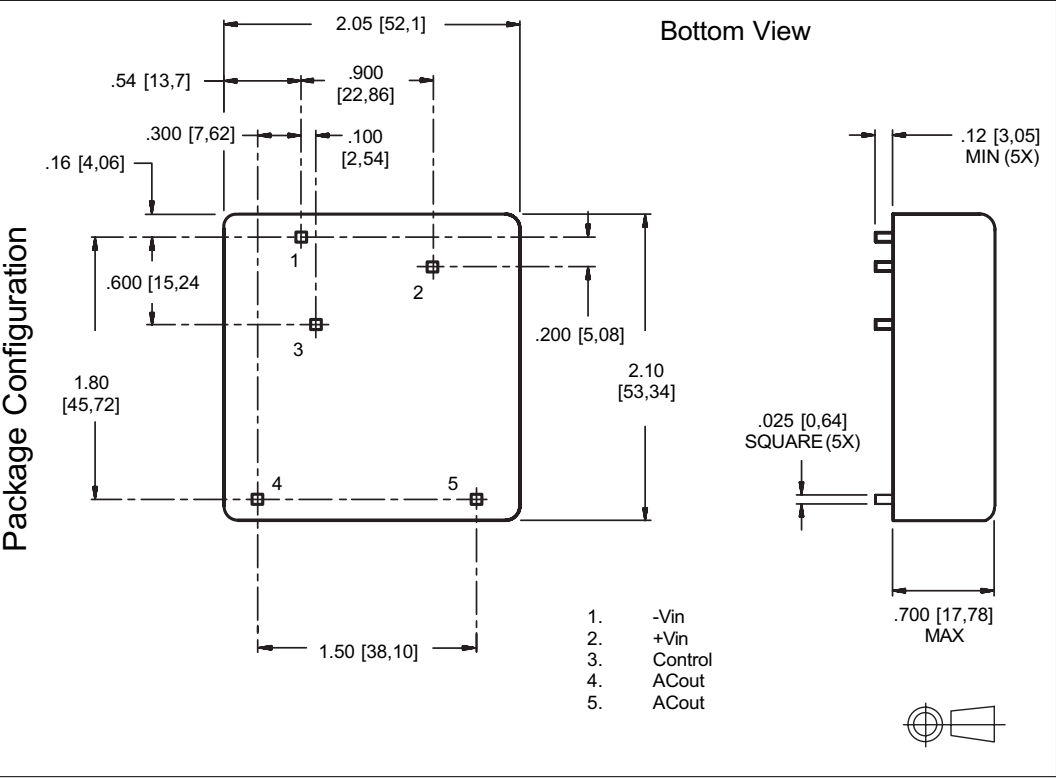
09/22/00

Preliminary

Single Tube
DC to AC Inverter

The ERG E2453 dc to ac inverter is specifically designed to power the Sharp LQ058T5DRQ1 to a nominal brightness level from a +5 volt dc source.

The E2453'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 +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	+4.5 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	lin	-	1.4	1.6	Adc
Operating Frequency	Fo	25	30	35	KHz
Minimum Output Voltage	Vout (min)	2400	-	-	Vrms
Efficiency	η	-	85	-	%
Output Current	lout	-	9	-	marms
Output Voltage (when powering the Sharp LQ058T5DRQ1 display)	Vout	-	740	-	Vrms
Pin 3 Sink Current	lout	-	1.1	-	madc

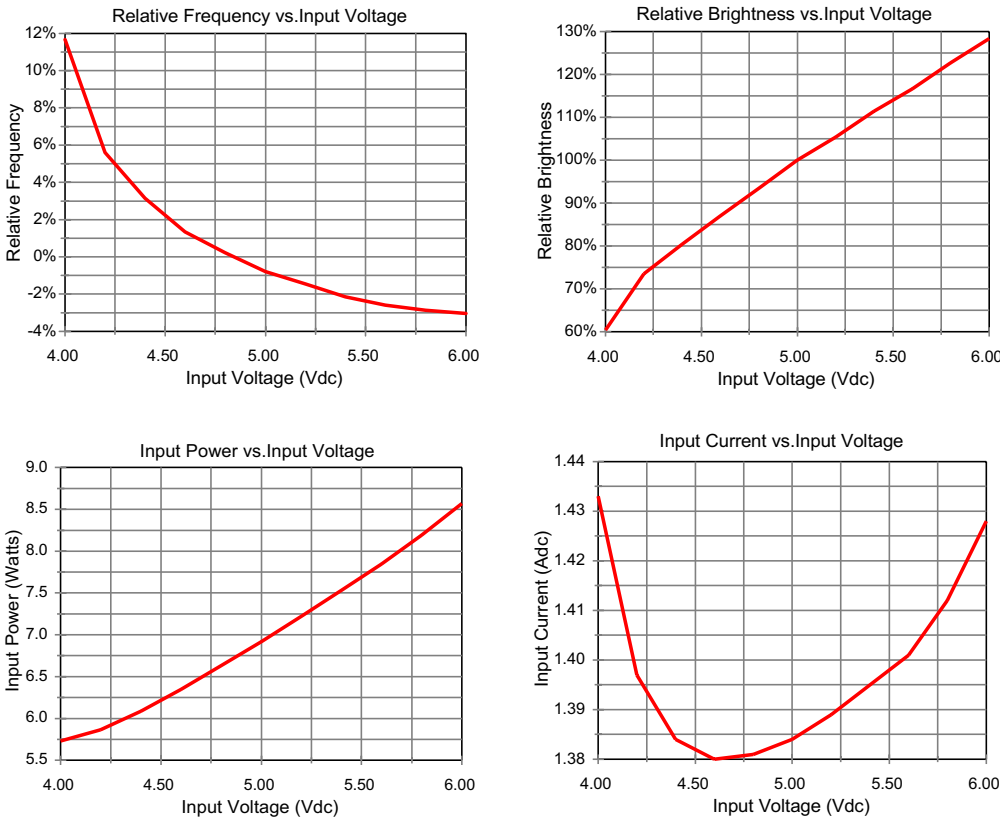
After tube has been allowed to warm-up for 20 minutes. Specifications subject to change without notice



Endicott Research Group, Inc.

Made in USA

Typical Performance Curves



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