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DMA22451

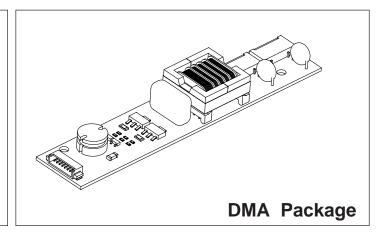
Specifications and Applications Information

01/05/05 Preliminary

Two Tube DC to AC Inverter

The ERG DMA22451 (DMA Series) DC to AC inverter features onboard connectors and can be easily dimmed using an external pulsewidth modulated control signal. This unit is less than 13mm in height and the two mounting holes makes installation very straight forward.

Powered by a regulated 12 volt DC source the DMA22451 is specially designed to power the Toshiba LTM15C423S/428S backlights.

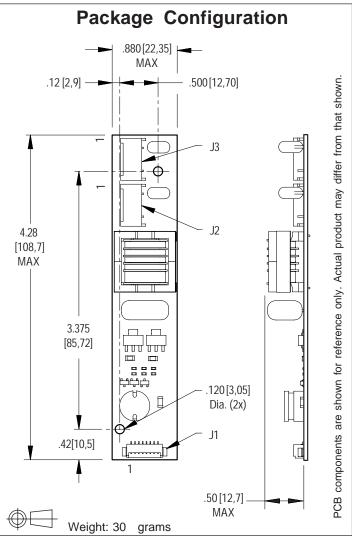


Product Features

- Small Package Size, less than 13mm in height.
- High Efficiency
- Made in U.S.A.

Connectors		
J1 - (Input) MOLEX 532-61-0890	J2,J3 - (Outputs) JST SM02(8.0)B-BHS-1-TB	

	Pino	outs	
J1-1 J1-2 J1-3	V _{in} GND	J2-1 J2-2	AC _{out} AC _{com}
	Enable Not Used	J3-1 J3-2	AC _{out} AC _{com}





Absolute Maximum Ratings (Note 1)

Rating	Symbol	Value	Units
Input Voltage	V _{in}	-0.3 to +13.2	Vdc
Enable	V _{Enable}	-0.3 to +13.2	Vdc
Operating Temperature	T _a	-0 to +85	°C
Storage Temperature	T _s	-40 to +85	°C

Recommended Operating Conditions

Rating	Symbol	Value	Units
Input Voltage	V _{in}	+10.8 to 12.6	Vdc
Operating Temperature (Note 2)	T _a	0 to +50	°C

Electrical Characteristics

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

Characteristic	Symbol	Min	Тур	Max	Units
Input Current	l in	-	0.83	1.00	A _{DC}
Input Ripple Current	l rip	-	-	-	mA _{pk-pk}
Operating Frequency	F _o	35	40	45	KHz
Efficiency	h	-	83	-	%
Output Voltage (no load) (Note 3)	V start	1500	-	-	V
Output Voltage (with lamp)	V _{out}	-	690	-	V
Output Current (per tube)	l out	-	6	-	mArms
Enable (pin J1-5)					
Turn-Off Threshold	V thoff	-	-	0.7	V
Turn-On Threshold	V thon	2.0	-	-	V

⁽Note 1) Reliable and predictable operation of the device are not guaranteed with applied stresses at or beyond those listed in "Absolute Maximum Ratings". Operation at these limits may reduce device reliability and is therefore not recommended. Please refer to "Recommended Operating Conditions" for reliable operation of the device.

(Note 2) Operation above 50°C is possible if airflow is provided.

(Note 3) Provided data is not tested but guaranteed by design.

Input voltage specification modified for clarity on 5/2004.