

D Series



12 Volt Input Dc to Ac Inverter

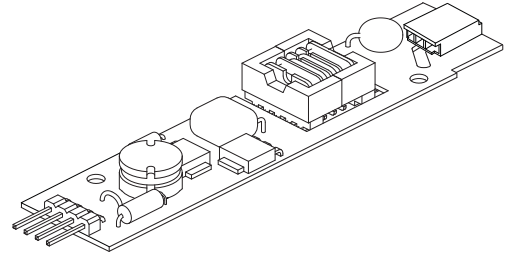
D12M70J2F



The D12M70J2F is a generic dc to ac inverter designed to generate 7 mArms into a 500 - 700 Volt load (CCFL) from a nominal 12 Volt dc source.

FEATURES

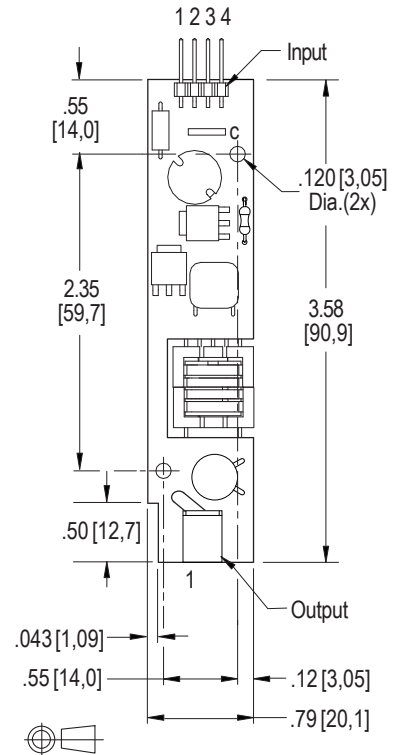
- Low Profile
- Display compatible connector
- High efficiency



PHYSICAL SPECIFICATIONS

Size:	.79" x 3.58" x .32"
(without input connector)	(20,1mm x 90,9mm x 8mm)
Weight:	11.4 grams
Component Surface Temperature:	-20° to +80°C
Storage Temperature:	-20° to +85°C
Humidity:	95% RH Max

Characteristics	Value	Units	Note(s)
Input Voltage	10.8 - 12.6	Vdc	
Input Current	0.45 typ	Adc	$R_L = 85.7 \text{ kOhms}$
Minimum No Load Output Voltage	1500	Vrms	$V_{in} = 12.0 \text{ Vdc}$
Frequency	37 typ	kHz	$V_{in} = 12.0 \text{ Vdc}$
Output Current	7.0	mArms	$R_L = 85.7 \text{ kOhms}$
Efficiency	78	%	Typical
Enable Pin Input Current	12 typ	mAdc	$V_{in} = 12.0 \text{ Vdc}$
The maximum input current (which indicates an overload condition) is 1.0 Adc maximum			



PCB components are shown for reference only. Actual product may differ from that shown.

Inverters specifically designed to match most popular LCD modules are also available. Contact your authorized distributor or ERG direct.

Pin Descriptions

Input Connector	Output Connectors
4 position right angle header (.025" square, .100" centers)	JST SM02B-BHSS-1-TB
J1-1 +Vin J1-2 GND J1-3 Enable/PWM * J1-4 N/C	J2-1 ACreturn J2-2 ACout
* Valid only with the "C" jumper removed	

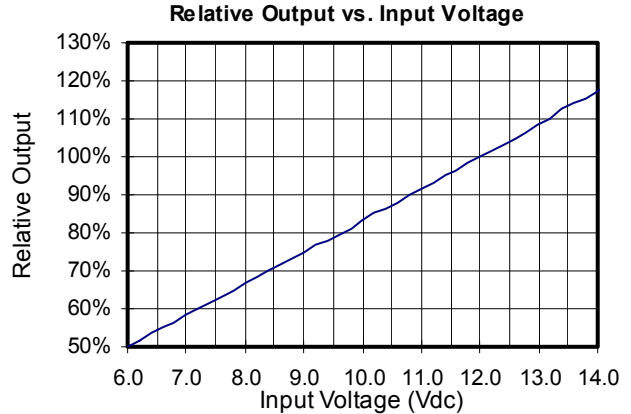
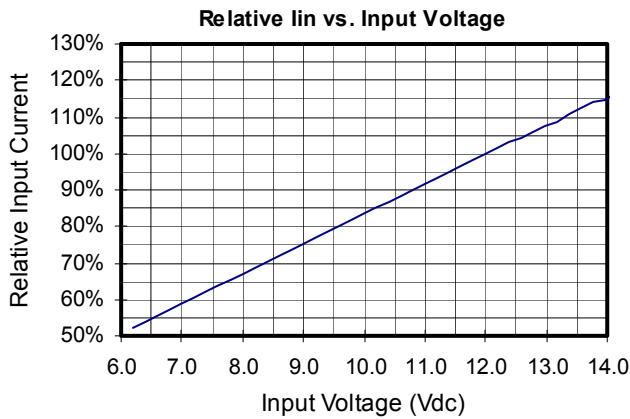
Endicott Research Group, Inc.

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Connection and Application Information

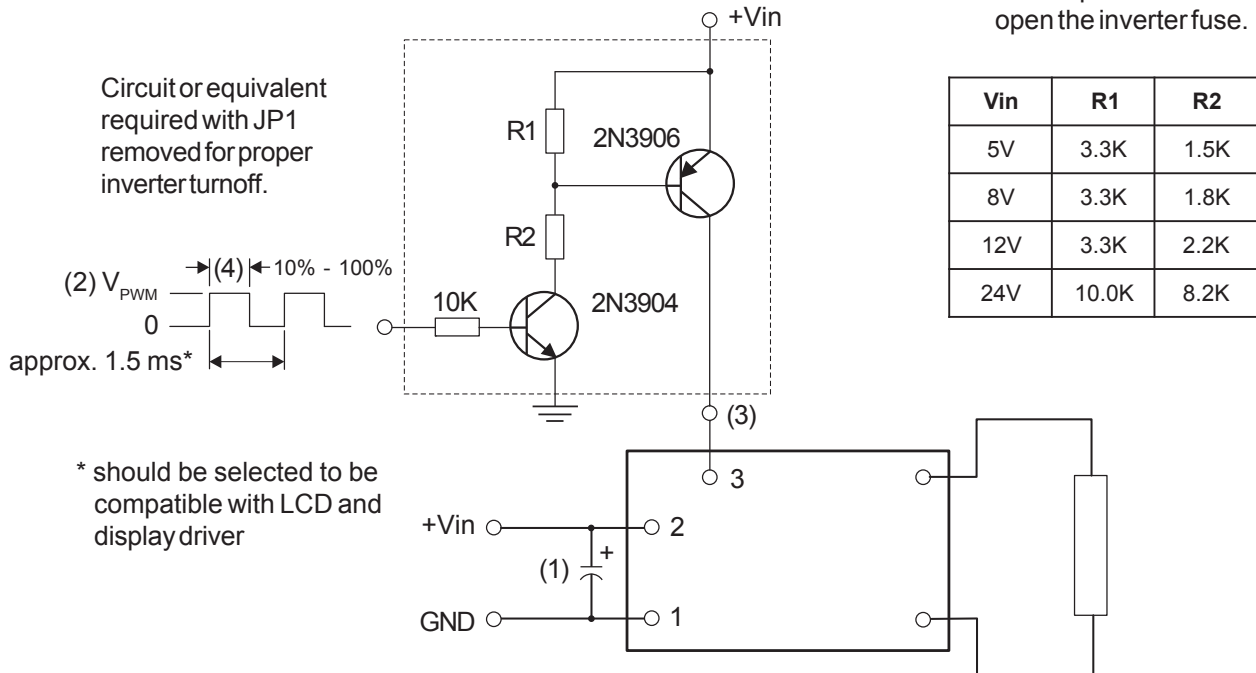
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**PWM Dimming
Required User Enable/Disable Interface Circuit**
(Valid only with JP1 removed)

With JP1 in place, a ground applied to the enable pin J1-3 will open the inverter fuse.



- (1) Low ESR type input by-pass capacitor (22 uf - 100 uf) may be required to reduce reflected ripple.
- (2) V_{PWM} from 2.4V to less than or equal to +Vin.
- (3) Full brightness without PWM control requires that pin 3 be tied to +Vin. Pin 3 must be at 0V to turn off.
- (4) Duty Cycle 10% - 100%.



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Specifications are subject to change without notice. 04/19/11

