

D Series

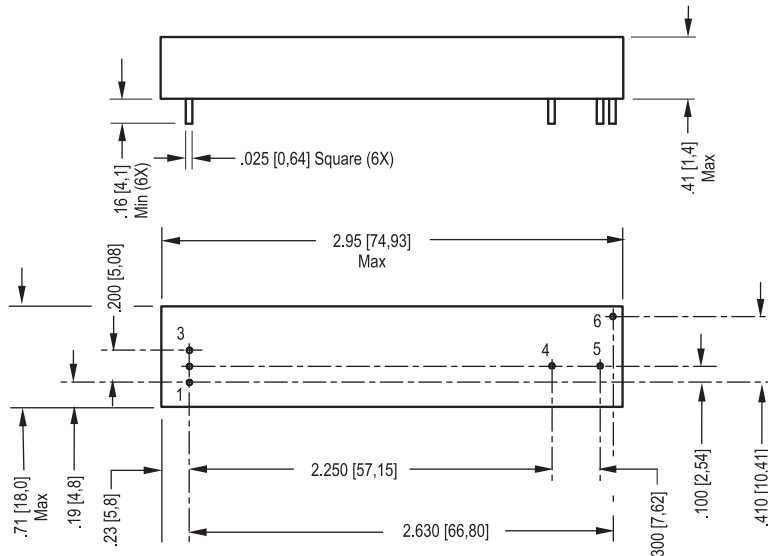


5 Volt Input Dc to Ac Inverter

D05PE60F



The D05PE60F is a generic dc to ac inverter designed to generate 6 mArms into a 350 - 550 Volt load (CCFL) from a nominal 5 Volt dc source.



- | | |
|---------------|-------------|
| 1. GND | 4. ACout |
| 2. +Vin | 5. ACreturn |
| 3. Enable/PWM | 6. N/C |



This view is from the top looking through pcb. It depicts layout for inverter to plug into.

PHYSICAL SPECIFICATIONS

| | |
|--------------------------------|-----------------------------|
| Size: | .71" x 2.95" x .41" |
| Weight: | 25 grams |
| Component Surface Temperature: | -20° to +80°C |
| Storage Temperature: | -40° to +85°C |
| Humidity: | 95% RH (Non-Condensing) Max |

| Characteristics | Value | Units | Note(s) |
|--------------------------------|-------------|-------|-----------------------------|
| Input Voltage | 4.50 - 5.25 | Vdc | |
| Input Current | 0.72 typ | Adc | $R_L = 75 \text{ kOhms}$ |
| Minimum No Load Output Voltage | 1400 | Vrms | $V_{in} = 5.00 \text{ Vdc}$ |
| Frequency | 39 typ | kHz | $V_{in} = 5.00 \text{ Vdc}$ |
| Output Current | 6.0 | mArms | $R_L = 75 \text{ kOhms}$ |
| Efficiency | 75 | % | Typical |

The maximum input current (which indicates an overload condition) is 1.0 Adc maximum.

FEATURES

- Low Profile
- PCB Mountable
- High efficiency
- Encapsulated

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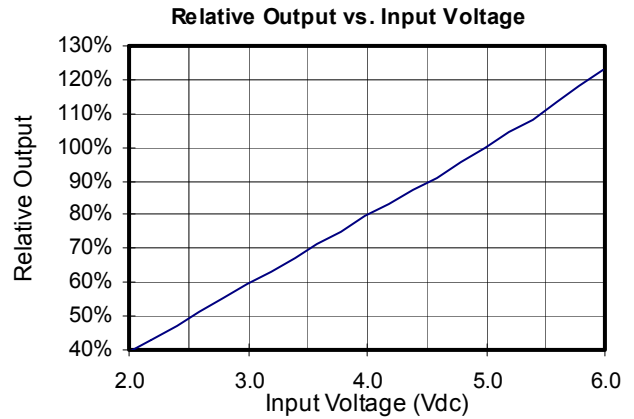
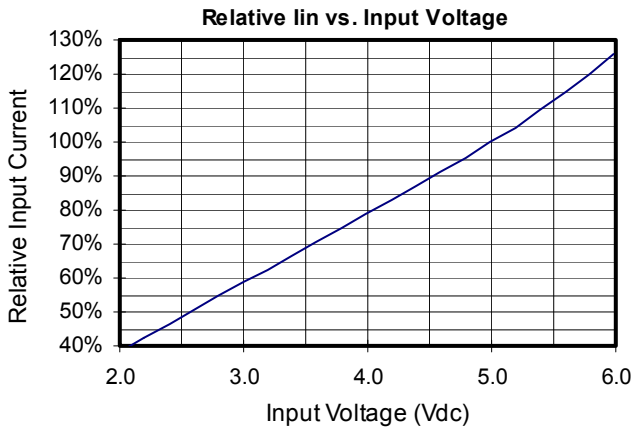
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Inverters specifically designed to match most popular LCD modules are also available. Contact your authorized distributor or ERG direct.

Connection and Application Information

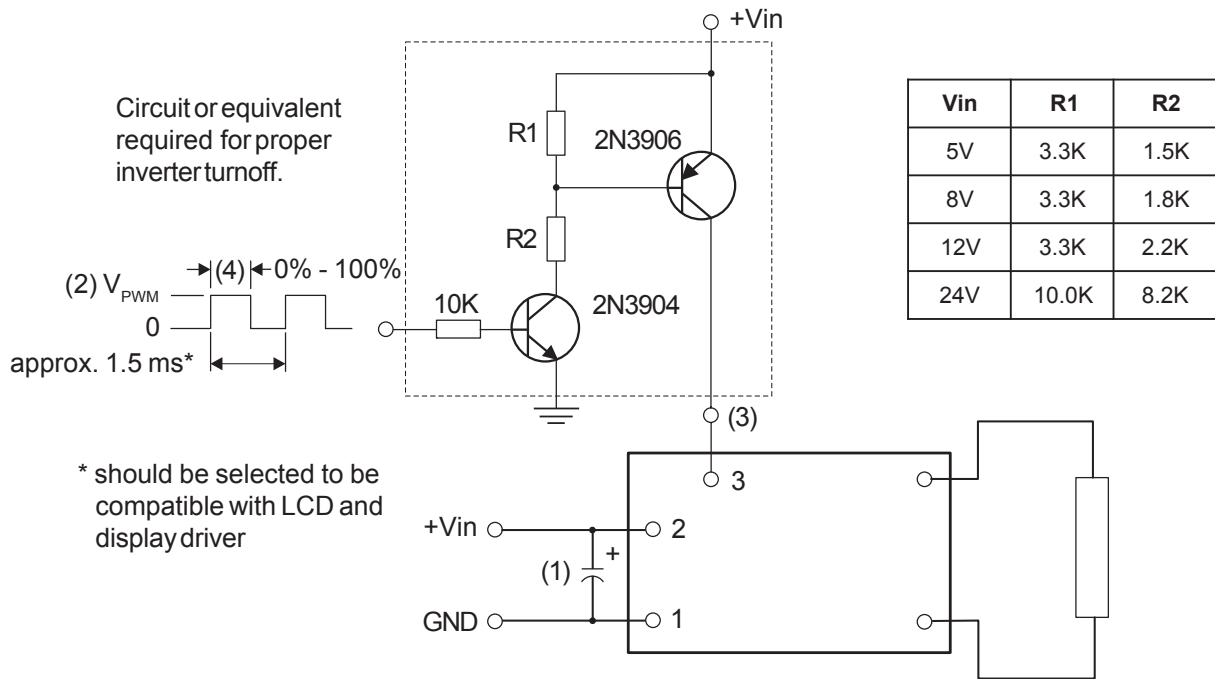
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PWM Dimming

Required User Enable/Disable Interface Circuit



- (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 0% - 100%.



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Specifications are subject to change without notice.

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