

## POWER OVER ETHERNET TRANSFORMERS 以太网电源变压器

## POE 系列

## FEATURES

- Developed for Powered Devices (PD) in IEEE 802.3af compliant PoE applications.
- Designed to operate in continuous mode.
- 36 – 72 V input with versions for 7 Watt output.
- Bias winding output: 12 V, 20 mA.
- 250 kHz switching frequency.

## APPLICATIONS

- POE70P Flyback Transformers for Power over Ethernet.

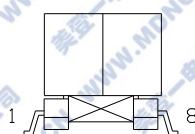
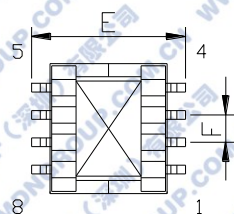
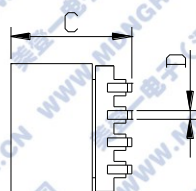
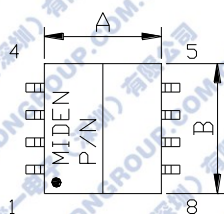
## 特 征

- 专为符合 IEEE 802.3af 的 PoE 应用中的受电设备 (PD) 开发;
- 设计用于连续模式;
- 36 – 72 V 输入, 7 瓦输出的版本;
- 偏置绕组输出: 12 V, 20 mA;
- 250 kHz 开关频率。

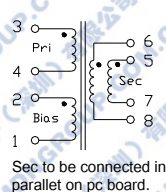
## 用 途

- 适用于以太网供电。

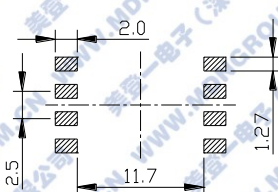
## DIMENSIONS AND LAND PATTERNS(mm)



SCHEMATICS



LAND PATTERN



| TYPE    | A $\pm 0.5$ | B max | C max | D $\pm 0.2$ | E max | F $\pm 0.2$ |
|---------|-------------|-------|-------|-------------|-------|-------------|
| POE70P- | 10.5        | 12.7  | 11.0  | 0.7         | 15.3  | 2.5         |

## SPECIFICATION

| P/N        | L<br>( $\mu$ H)<br>$\pm 10\%$ | Lk<br>( $\mu$ H)<br>Max | DCR( $\Omega$ )Max |       |       | Turns ratio |          | Ipk<br>(A) | Output     |
|------------|-------------------------------|-------------------------|--------------------|-------|-------|-------------|----------|------------|------------|
|            |                               |                         | Pri                | Bias  | Sec   | Pri:Sec     | Pri:Bias |            |            |
| POE70P-33L | 155                           | 4.00                    | 0.414              | 0.822 | 0.036 | 1:0.19      | 1:0.667  | 0.65       | 3.3V,2.12A |
| POE70P-50L | 155                           | 3.60                    | 0.414              | 0.822 | 0.060 | 1:0.262     | 1:0.667  | 0.65       | 5.0V,1.4A  |
| POE70P-12L | 155                           | 3.25                    | 0.414              | 0.822 | 0.343 | 1:0.667     | 1:0.667  | 0.65       | 12V,0.6A   |

Remark:1. Inductance is for the primary, measured at 250KHz, 0.1V, 0 Adc.

2. Ipk is peak primary current drawn at minimum input voltage.

3. DCR for the secondary is per winding.