

# HALO

## 13W, 3.3Vout, Power Transformers (EFD15) Power Over Ethernet, DC/DC Converter

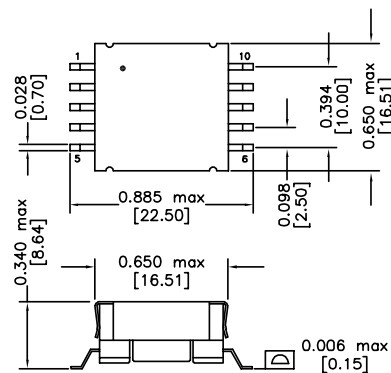
ELECTRONICS, INC.

HALO Electronics offers a broad line of power transformers designed for fly-back DC/DC converters used in Power over Ethernet (PoE) applications. These industrial temperature range transformers are UL recognized and are fully compliant to IEEE802.3af requirements for isolation and power ratings. This standard series is LEAD-free and RoHS compliant. Please contact your nearest HALO representative for custom designs.



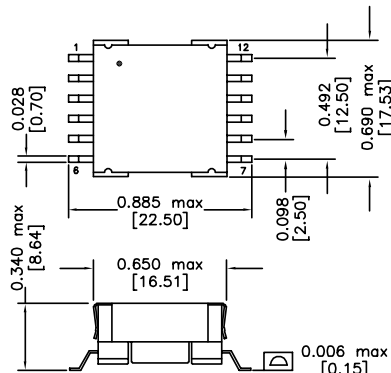
### MECHANICAL DIMENSIONS

#### PACKAGE A



RECOMMENDED SOLDER PAD DIMENSIONS

#### PACKAGE B



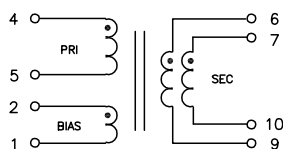
RECOMMENDED SOLDER PAD DIMENSIONS



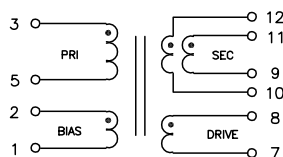
DIMENSIONS: Inch [mm]

TOLERANCES: 0.006 inch if not specified

#### SCHEMATIC A



#### SCHEMATIC B



Electrical Specifications @ 25 °C

Isolation Voltage (PRI – SEC): 1,500Vrms

Operating Temp: -40 to +85 °C



| Part Number       | Turns Ratio<br>PRI:BIAS:SEC:DRV | DCR (mΩ max)<br>PRI/BIAS/SEC/DRV (μH ±10%) | PRI OCL<br>(μH Max) | PRI LL<br>(μH Max) | PKG/<br>SCHE. | IC<br>P/N |
|-------------------|---------------------------------|--------------------------------------------|---------------------|--------------------|---------------|-----------|
| TGP13-S004EFD15LF | 1:0.208:0.083                   | 520/400/10                                 | 145                 | 5                  | A             | LTC4267   |
| TGP13-S008EFD15LF | 1: 0.500:0.167                  | 150/400/10                                 | 33                  | 1                  | A             | LM5072    |
| TGP13-S012EFD15LF | 1:0.500:0.150:0.275             | 520/760/20/400                             | 160                 | 2                  | B             | TPS23750  |

# HALO

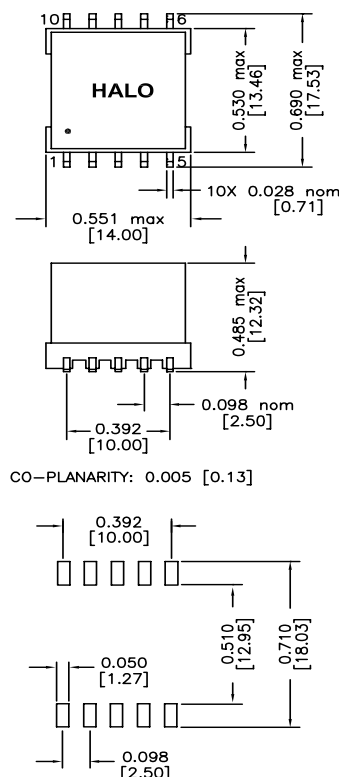
## 13W, 3.3Vout, Power Transformers (EP13) Power Over Ethernet, DC/DC Converter

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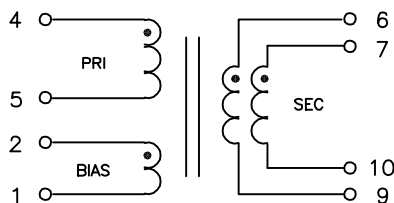
### MECHANICAL DIMENSIONS



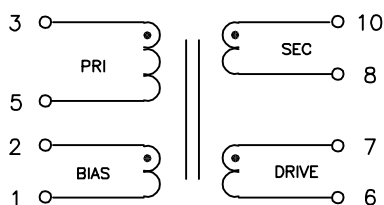
RECOMMENDED SOLDER PAD DIMENSIONS

DIMENSIONS: Inch [mm]  
TOLERANCES: 0.006 inch if not specified

### SCHEMATIC A



### SCHEMATIC B



13W, 3.3Vout, Power Transformers (EP13)  
Power Over Ethernet, DC/DC Converter

Electrical Specifications @ 25 °C  
Isolation Voltage (PRI – SEC): 1,500Vrms  
Operating Temp: -40 to +85 °C



| Part Number      | Turns Ratio<br>PRI:AUX:SEC:DRV | DCR (mΩ max)<br>PRI/AUX/SEC/DRV | PRI OCL<br>(μH ±10%) | PRI LL<br>(μH Max) | IC<br>SCHE. P/N |
|------------------|--------------------------------|---------------------------------|----------------------|--------------------|-----------------|
| TGP13-S003EP13LF | 1:0.208:0.083                  | 500/400/15                      | 145                  | 5                  | A LTC4267       |
| TGP13-S007EP13LF | 1: 0.500:0.167                 | 100/400/12                      | 33                   | 1                  | A LM5072        |
| TGP13-S011EP13LF | 1:0.500:0.150:0.275            | 450/700/30/400                  | 160                  | 3                  | B TPS23750      |

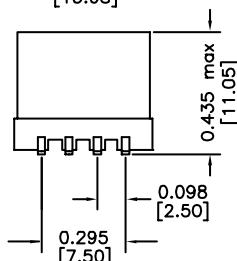
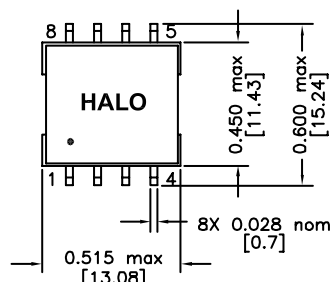
# HALO 7W, 3.3Vout, Power Transformers (EP10)

## Power Over Ethernet, DC/DC Converter

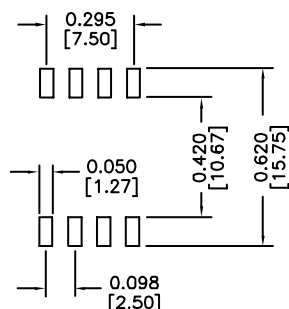
HALO Electronics offers a broad line of power transformers designed for fly-back DC/DC converters used in Power over Ethernet (PoE) applications. These industrial temperature range transformers are UL recognized and are fully compliant to IEEE802.3af requirements for isolation and power ratings. This standard series is LEAD-free and RoHS compliant. Please contact your nearest HALO representative for custom designs.



### MECHANICAL DIMENSIONS



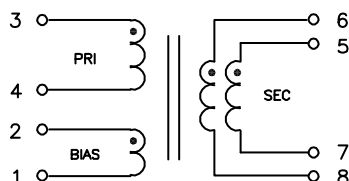
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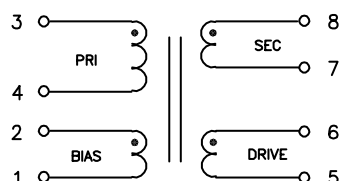
RECOMMENDED SOLDER PAD DIMENSIONS

DIMENSIONS: Inch [mm]  
TOLERANCES: 0.006 inch if not specified

### SCHEMATIC A



### SCHEMATIC B



7W, 3.3Vout, Power Transformers (EP10)  
Power Over Ethernet, DC/DC Converter

Electrical Specifications @ 25 °C

Isolation Voltage (PRI – SEC): 1,500Vrms  
Operating Temp: -40 to +85 °C

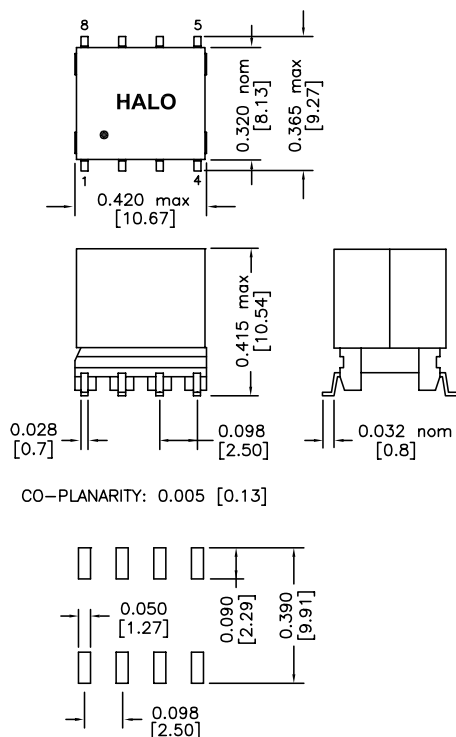


| Part Number     | Turns Ratio<br>PRI:AUX:SEC:DRV | DCR (mΩ max)<br>PRI/AUX/SEC/DRV | PRI OCL<br>(μH ±10%) | PRI LL<br>(μH Max) | IC<br>SCHE. P/N |
|-----------------|--------------------------------|---------------------------------|----------------------|--------------------|-----------------|
| TGP7-S002EP10LF | 1:0.208:0.083                  | 450/400/12                      | 145                  | 4                  | A LTC4267       |
| TGP7-S006EP10LF | 1: 0.500:0.167                 | 100/400/10                      | 33                   | 1                  | A LM5072        |
| TGP7-S010EP10LF | 1:0.500:0.150:0.275            | 450/700/30/400                  | 160                  | 3                  | B TPS23750      |

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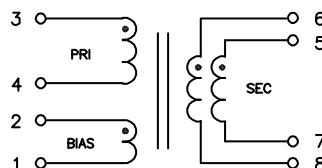
### MECHANICAL DIMENSIONS



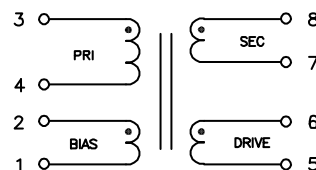
RECOMMENDED SOLDER PAD DIMENSIONS

DIMENSIONS: Inch [mm]  
TOLERANCES: 0.006 inch if not specified

### SCHEMATIC A



### SCHEMATIC B



Electrical Specifications @ 25 °C

Isolation Voltage (PRI – SEC): 1,500Vrms  
Operating Temp: -40 to +85 °C



| Part Number    | Turns Ratio<br>PRI:AUX:SEC:DRV | DCR (mΩ max)<br>PRI/AUX/SEC/DRV | PRI OCL<br>(μH ±10%) | PRI LL<br>(μH Max) SCHE. | IC<br>P/N |
|----------------|--------------------------------|---------------------------------|----------------------|--------------------------|-----------|
| TGP3-S001EP7LF | 1:0.208:0.083                  | 1200/300/20                     | 145                  | 4 A                      | LTC4267   |
| TGP3-S005EP7LF | 1: 0.500:0.167                 | 160/300/15                      | 33                   | 1 A                      | LM5072    |
| TGP3-S009EP7LF | 1:0.500:0.150:0.275            | 1000/550/50/300                 | 160                  | 3 B                      | TPS23750  |

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

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