

# HALO

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

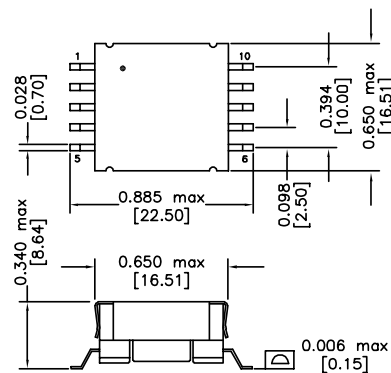
ELECTRONICS, INC.

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.



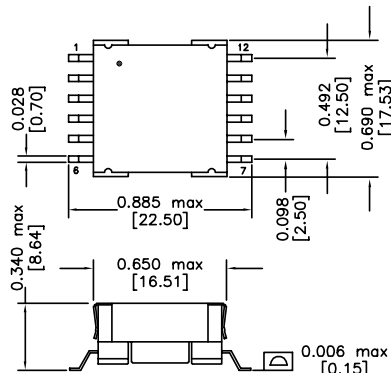
## MECHANICAL DIMENSIONS

### PACKAGE A



RECOMMENDED SOLDER PAD DIMENSIONS

### PACKAGE B



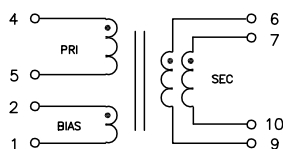
RECOMMENDED SOLDER PAD DIMENSIONS



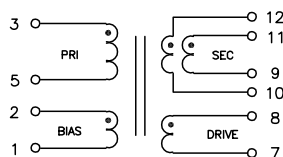
DIMENSIONS: Inch [mm]

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

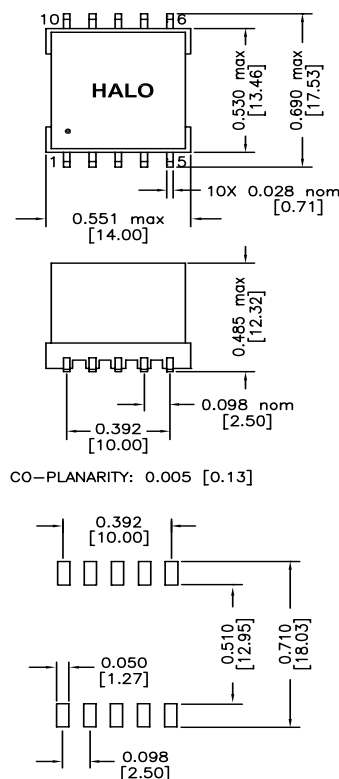
## 13W, 3.3Vout, Power Transformers (EP13) Power Over Ethernet, DC/DC Converter

ELECTRONICS, INC.

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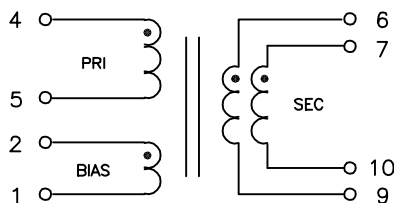
### MECHANICAL DIMENSIONS



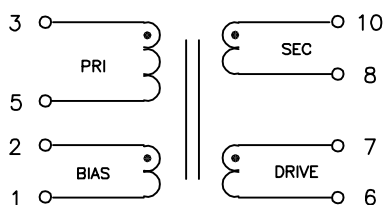
RECOMMENDED SOLDER PAD DIMENSIONS

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      |

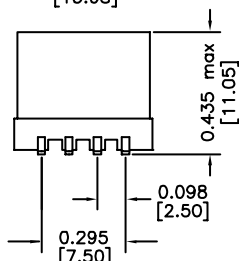
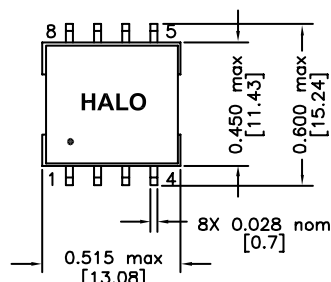
# HALO 7W, 3.3Vout, Power Transformers (EP10)

## Power Over Ethernet, DC/DC Converter

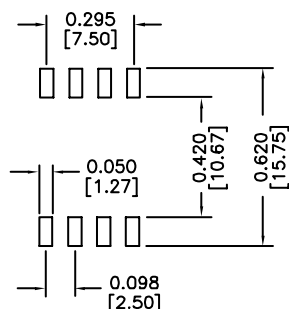
HALO Electronics offers a broad line of power transformers designed for fly-back DC/DC converters used in Power over Ethernet (PoE) applications. These industrial temperature range transformers are UL recognized and are fully compliant to IEEE802.3af requirements for isolation and power ratings. This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



### MECHANICAL DIMENSIONS



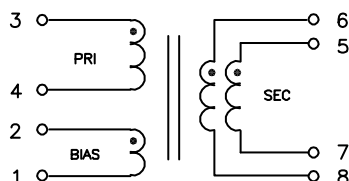
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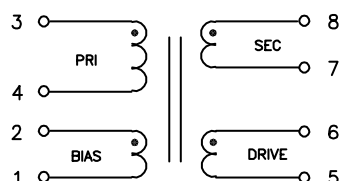
RECOMMENDED SOLDER PAD DIMENSIONS

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      |

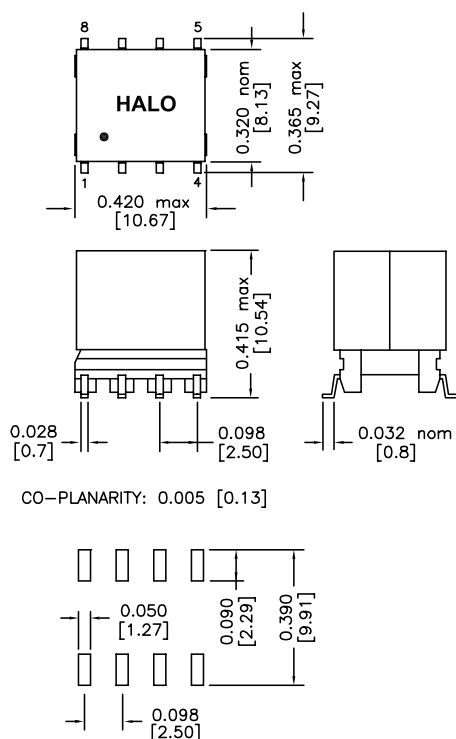
# HALO

## 3W, 3.3Vout, Power Transformers (EP7) 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.



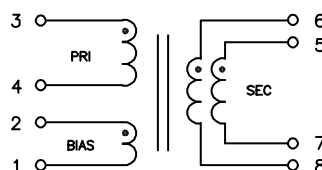
### MECHANICAL DIMENSIONS



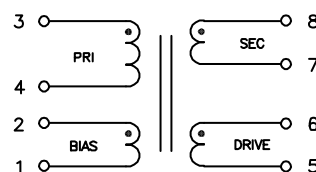
RECOMMENDED SOLDER PAD DIMENSIONS

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

### SCHEMATIC A



### SCHEMATIC B



3W, 3.3Vout, Power Transformers (EP7)  
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) 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  |



**Стандарт  
Электрон  
Связь**

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

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Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

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