

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

**ELECTRONICS, INC.**

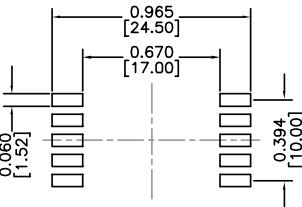
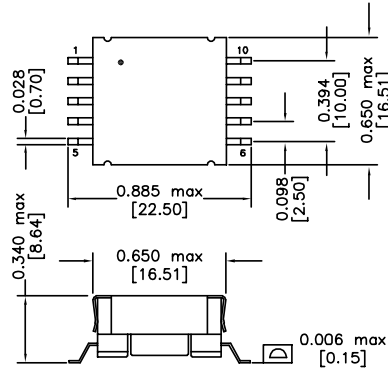
HALO Electronics offers a broad line of power transformers designed for fly-back DC/DC converters used in Power over Ethernet (PoE) applications. These industrial temperature range transformers are UL recognized and are fully compliant to IEEE802.3af requirements for isolation and power ratings. This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



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

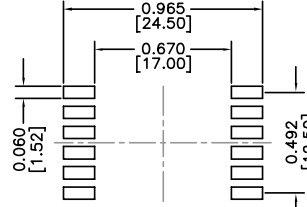
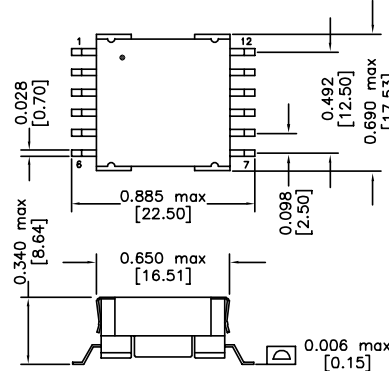
## MECHANICAL DIMENSIONS

### PACKAGE A



RECOMMENDED SOLDER PAD DIMENSIONS

### PACKAGE B



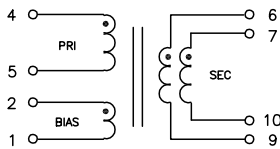
RECOMMENDED SOLDER PAD DIMENSIONS



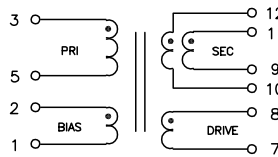
DIMENSIONS: Inch [mm]

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	DCR (mΩ max)	PRI OCL	PRI LL	PKG/	IC
	PRI:BIAS:SEC:DRV	PRI/BIAS/SEC/DRV (μH ±10%)	(μH Max)	(μH Max)	SCHE.	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

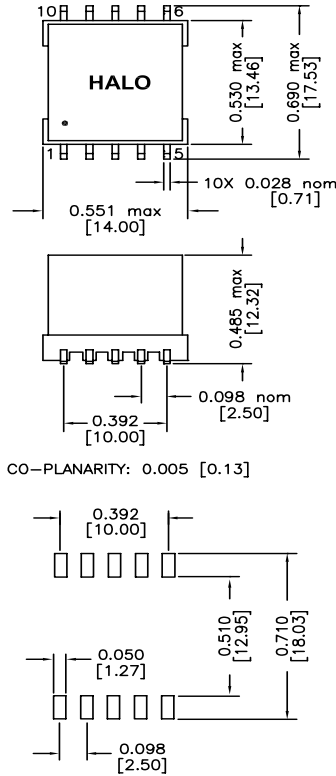
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13W, 3.3Vout, Power Transformers (EP13)  
Power Over Ethernet, DC/DC Converter

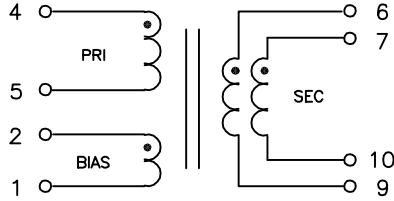
## MECHANICAL DIMENSIONS



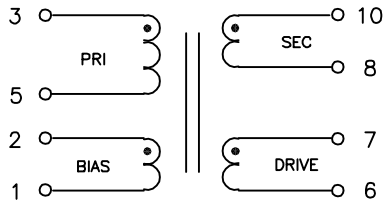
RECOMMENDED SOLDER PAD DIMENSIONS

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	DCR (mΩ max)	PRI OCL	PRI LL	IC
	PRI:AUX:SEC:DRV	PRI/AUX/SEC/DRV	(μH ±10%)	(μH Max)	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

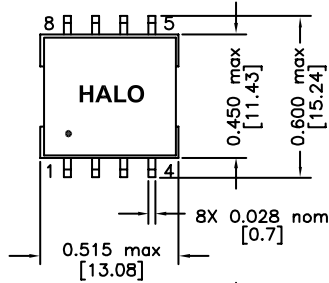
# HALO ELECTRONICS, INC. 7W, 3.3Vout, Power Transformers (EP10) Power Over Ethernet, DC/DC Converter

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.



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

## MECHANICAL DIMENSIONS



CO-PLANARITY: 0.005 [0.13]



RECOMMENDED SOLDER PAD DIMENSIONS

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

Electrical Specifications @ 25 °C

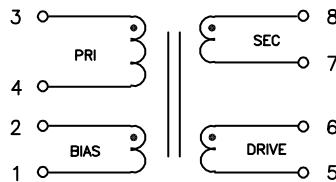
Isolation Voltage (PRI – SEC): 1,500Vrms  
 Operating Temp: -40 to +85 °C



## SCHEMATIC A



## SCHEMATIC B



Part Number	Turns Ratio	DCR (mΩ max)	PRI OCL	PRI LL	IC
	PRI:AUX:SEC:DRV	PRI/AUX/SEC/DRV	(μH ±10%)	(μH Max)	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

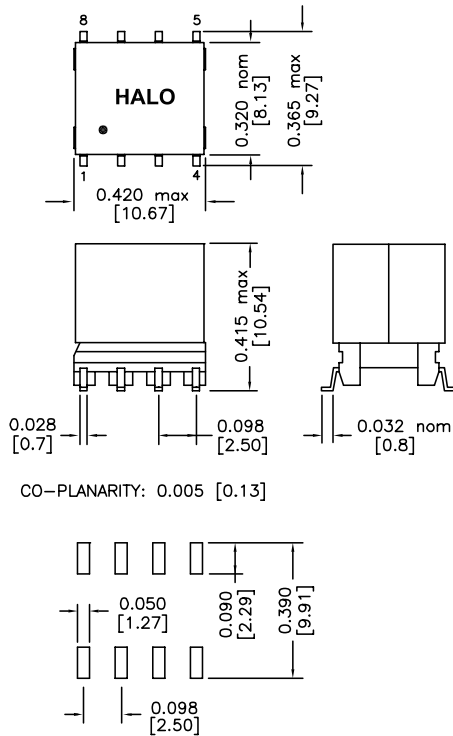
# HALO 3W, 3.3Vout, Power Transformers (EP7) Power Over Ethernet, DC/DC Converter

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.



3W, 3.3Vout, Power Transformers (EP7)  
Power Over Ethernet, DC/DC Converter

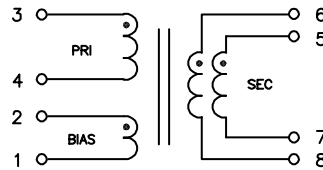
## MECHANICAL DIMENSIONS



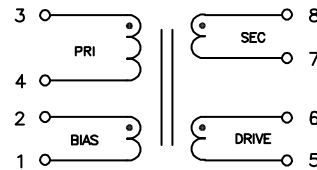
RECOMMENDED SOLDER PAD DIMENSIONS

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	DCR (mΩ max)	PRI OCL	PRI LL	IC
	PRI:AUX:SEC:DRV	PRI/AUX/SEC/DRV	(μH ±10%)	(μH Max) SCHE.	
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

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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