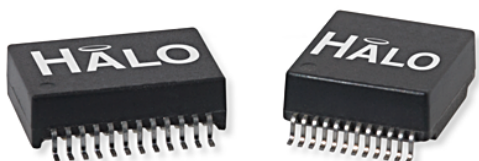


Gigabit PoE Transformer

SMD Single Port Gigabit or Dual Port 10/100BASE-TX PoE and PoE+



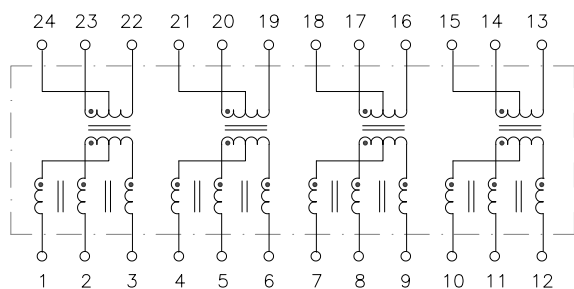
Product Features:

- Gigabit Ethernet PoE/PoE+ Transformer
- IEEE802.3ab/af/at Compliant
- UL/EN60950 Recognized
- 100% Electrical Testing
- 1500Vrms Hi-Pot
- Patented Open Frame Construction

Part Number	Circuit	Package	Temp. Range	PoE	1-40MHz	Return Loss (min)			100MHz	Insertion Loss (max)
						60MHz	80MHz			
TG111-S112NYRL	A	NY	0 to 70°C	PoE	-18dB	-14dB	-12dB	-10dB	-1.1dB	
TG111-E112NYRL	A	NY	-40 to +85°C	PoE	-18dB	-14dB	-12dB	-10dB	-1.1dB	
TG1G-S012NZRL	A	NZ	0 to 70°C	PoE	-18dB	-14dB	-12dB	-10dB	-1.1dB	
TG1G-E012NZRL	A	NZ	-40 to +85°C	PoE	-18dB	-14dB	-12dB	-10dB	-1.1dB	
TG111-HP3NZRL*	A	NZ	0 to 70°C	PoE+	-18dB	-14dB	-12dB	-10dB	-1.1dB	
TG111-HPE3NZRL*	A	NZ	-40 to +85°C	PoE+	-18dB	-14dB	-12dB	-10dB	-1.1dB	

* Pins 13 - 24 must be located on the line side for PoE+

Circuit A

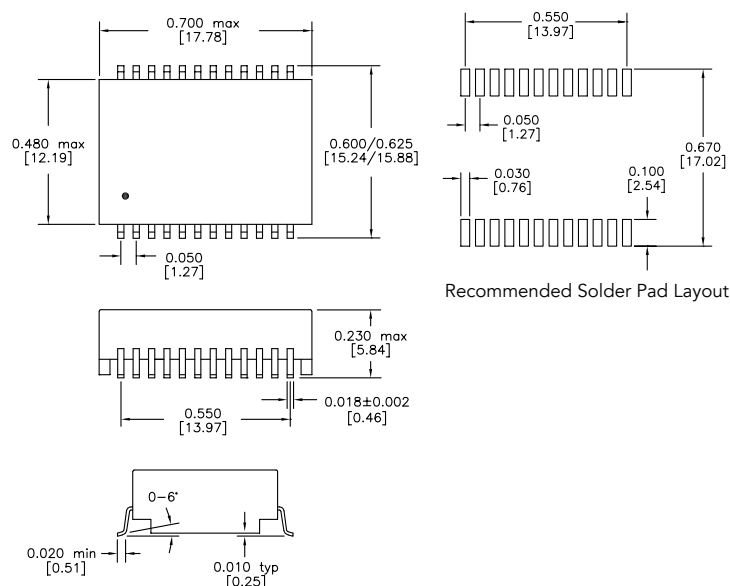


Notes:

- 1) Please contact the factory or representative for individual data-sheets or additional information.
- 2) For the smallest single port Gigabit or dual port 10/100BASE-TX PoE/PoE+ transformer contact the factory about the proprietary GEmini™ series.
- 3) Contact factory for "LF" lead free availability.

HALO Gigabit Family of Ethernet Transformers

NZ Package



Dimensions: inch [mm]

Co-Planarity: 0.004 [0.10]

US Patent Numbers:

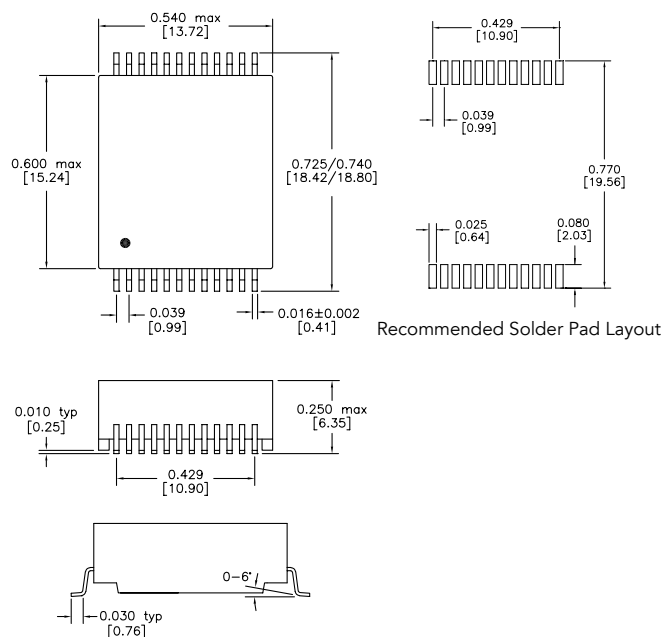
5,656,985 6,297,721 B1

6,297,720 B1 6,320,489 B1

6,344,785 B1 6,662,431 B1

Recommended Solder Pad Layout

NY Package



Recommended Solder Pad Layout

Dimensions: inch [mm]

HALO
ELECTRONICS, INC.

2880 Lakeside Drive #116

Santa Clara, CA 95054

(650) 903-3800

www.haloelectronics.com

HALO® Electronics is a leading supplier of high quality communication magnetics including signal transformers, filters, CMR chokes, PoE power transformers, DC/DC converters, and integrated Ethernet connectors. HALO's leading edge technology solutions are manufactured in ISO9001 and ISO14001 factories offering high quality products at a competitive price.

© Copyright 2014 HALO Electronics, Inc. All rights reserved.

Revised 7/2014. Download the latest version at www.haloelectronics.com/pdf/discrete-poe-1gbaset.pdf