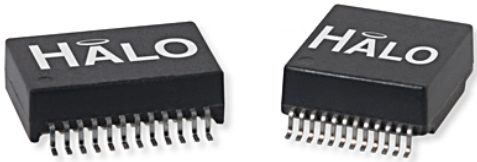


Gigabit PoE Transformer



SMD Single Port Gig or Dual Port 10/100BASE-TX PoE/PoE+ Isolation Modules



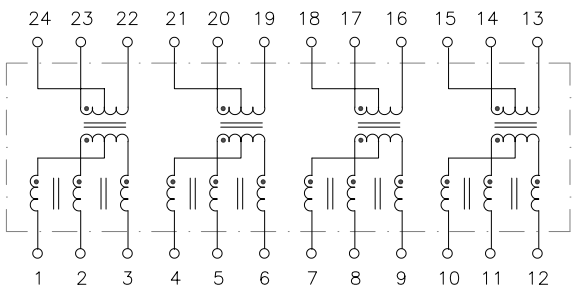
Product Features:

- GigE Ethernet PoE/PoE+ Transformer/Choke
- 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	Return Loss (min)				Insertion Loss (max)	RoHS ¹
					1-40MHz	60MHz	80MHz	100MHz		
TG111-S112NYLF	A	NY	0 to 70°C	PoE	-18dB	-14dB	-12dB	-10dB	-1.1dB	Pb-Free
TG111-S112NYRL	A	NY	0 to 70°C	PoE	-18dB	-14dB	-12dB	-10dB	-1.1dB	RoHS (7a)
TG111-E112NYLF	A	NY	-40 to +85°C	PoE	-18dB	-14dB	-12dB	-10dB	-1.1dB	Pb-Free
TG111-E112NYRL	A	NY	-40 to +85°C	PoE	-18dB	-14dB	-12dB	-10dB	-1.1dB	RoHS (7a)
TG1G-S012NZLF	A	NZ	0 to 70°C	PoE	-18dB	-14dB	-12dB	-10dB	-1.1dB	Pb-Free
TG1G-S012NZRL	A	NZ	0 to 70°C	PoE	-18dB	-14dB	-12dB	-10dB	-1.1dB	RoHS (7a)
TG1G-E012NZLF	A	NZ	-40 to +85°C	PoE	-18dB	-14dB	-12dB	-10dB	-1.1dB	Pb-Free
TG1G-E012NZRL	A	NZ	-40 to +85°C	PoE	-18dB	-14dB	-12dB	-10dB	-1.1dB	RoHS (7a)
TG111-HP3NZLF*	A	NZ	0 to 70°C	PoE+	-18dB	-14dB	-12dB	-10dB	-1.1dB	Pb-Free
TG111-HP3NZRL*	A	NZ	0 to 70°C	PoE+	-18dB	-14dB	-12dB	-10dB	-1.1dB	RoHS (7a)
TG111-HPE3NZLF*	A	NZ	-40 to +85°C	PoE+	-18dB	-14dB	-12dB	-10dB	-1.1dB	Pb-Free
TG111-HPE3NZRL*	A	NZ	-40 to +85°C	PoE+	-18dB	-14dB	-12dB	-10dB	-1.1dB	RoHS (7a)

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

Circuit A

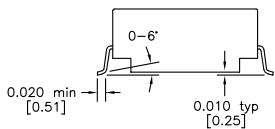
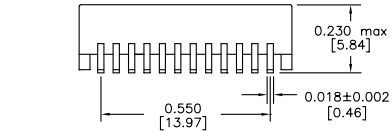
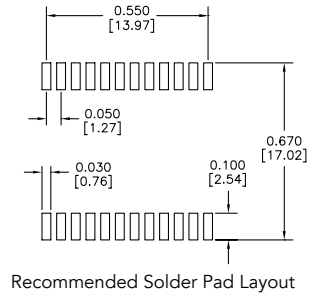
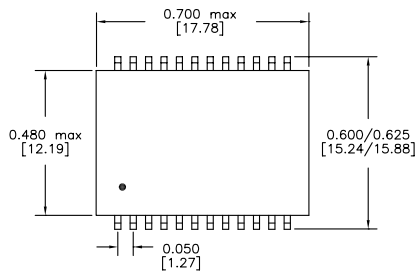


Notes:

1. Pb-Free parts are RoHS 6/6 compliant. RoHS (7a) parts contain lead per exemption 7a which is set to expire in July 2016.
2. Parts with RL suffix are not recommended for new designs.
3. Please contact the factory or representative for individual datasheets or additional information.
4. For the smallest single port Gigabit or dual port 10/100BASE-TX PoE/PoE+ transformer contact the factory about the proprietary *GEmini™* series.

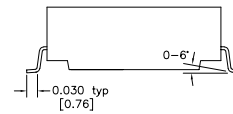
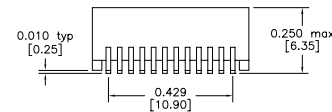
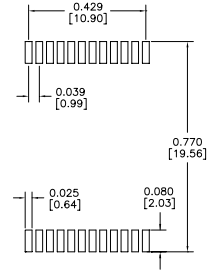
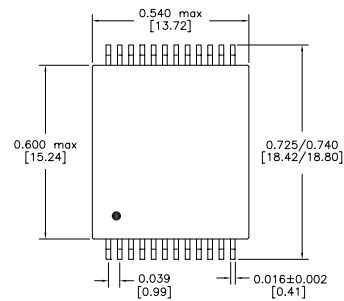
HALO Gigabit Family of Ethernet Transformers

NZ Package



Dimensions: inch [mm]
Co-Planarity: 0.004 [0.10]

NY Package



Dimensions: inch [mm]

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



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 isolation modules, and integrated Ethernet connectors. HALO's high quality and competitively priced leading edge technology solutions are manufactured in ISO9001 and ISO14001 factories.

© Copyright 2015 HALO Electronics, Inc. All rights reserved.

Revised 8/2015REVB. Download the latest version at www.haloelectronics.com/pdf/discrete-poe-1gbaset.pdf