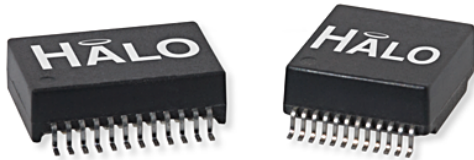


Gigabit PoE Transformer

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



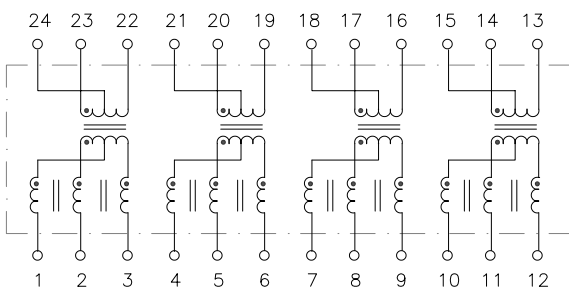
Product Features:

- 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	1-40MHz	Return Loss (min) 60MHz	80MHz	100MHz	Insertion Loss (max)	RoHS ¹
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



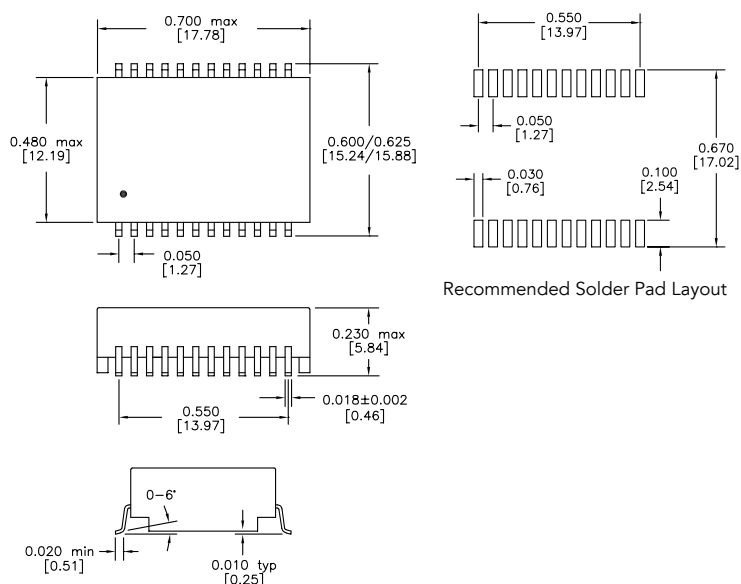
Notes:

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.

For additional information contact your [local representative](#), or HALO's support staff at (650) 903-3800 or info@haloelectronics.com

HALO Gigabit Family of Ethernet Transformers

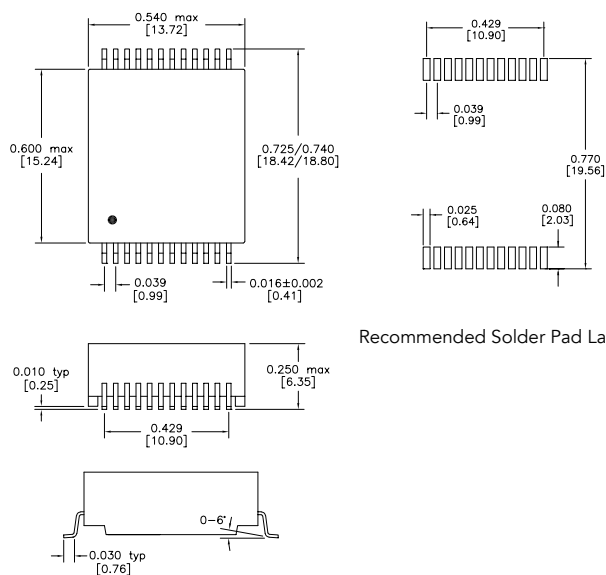
NZ Package



Recommended Solder Pad Layout

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

NY Package



Recommended Solder Pad Layout

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

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