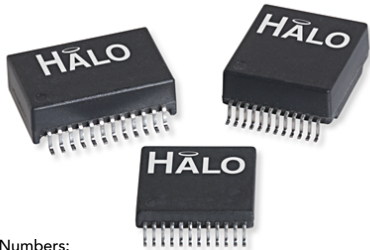


# Single Port GigE Transformer

SMD Single Port Gigabit or Dual Port 10/100BASE-TX Transformer



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

## Product Features:

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

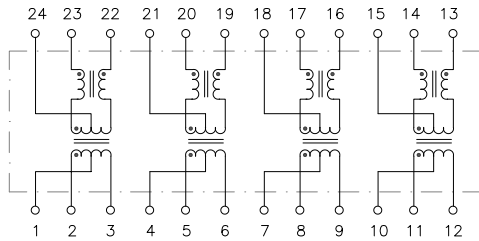
Part Number	Circuit	Package	Temp. Range	Return Loss (min)				OCL (min) (100kHz, 0.1Vrms, 8mA)
				1-40MHz	60MHz	80MHz	100MHz	
TG1G-S001NZRL	A	NZ	0 to 70°C	-18dB	-14dB	-12dB	-10dB	350μH
TG1G-E001NZRL	A	NZ	-40 to +85°C	-18dB	-14dB	-12dB	-10dB	350μH
TG1G-S002NZRL	B	NZ	0 to 70°C	-18dB	-14dB	-12dB	-10dB	350μH
TG1G-S010NZRL	C	NZ	0 to 70°C	-18dB	-14dB	-12dB	-10dB	350μH
TG1G-E010NZRL	C	NZ	-40 to +85°C	-18dB	-14dB	-12dB	-10dB	350μH
TG1G-S012NZRL	D	NZ	0 to 70°C	-18dB	-14dB	-12dB	-10dB	350μH
TG1G-E012NZRL	D	NZ	-40 to +85°C	-18dB	-14dB	-12dB	-10dB	350μH
TG1G-S031NYRL	A	NY	0 to 70°C	-18dB	-14dB	-12dB	-10dB	350μH
TG1G-E001NYRL	A	NY	-40 to +85°C	-18dB	-14dB	-12dB	-10dB	350μH
TG1G-S032NYRL	B	NY	0 to 70°C	-18dB	-14dB	-12dB	-10dB	350μH
TG111-E032NYRL	B	NY	-40 to +85°C	-18dB	-14dB	-12dB	-10dB	350μH
TG1G-S035NYRL	C	NY	0 to 70°C	-18dB	-14dB	-12dB	-10dB	350μH
TG1G-E035NYRL	C	NY	-40 to +85°C	-18dB	-14dB	-12dB	-10dB	350μH
TG111-E112NYRL	D	NY	-40 to +85°C	-18dB	-14dB	-12dB	-10dB	350μH
TG111-S001J24RL <sup>3</sup>	A	J24	0 to 70°C	-18dB	-14dB	-12dB	-10dB	350μH
TG111-E001J24RL <sup>3</sup>	A	J24	-40 to +85°C	-18dB	-14dB	-12dB	-10dB	350μH

## Notes:

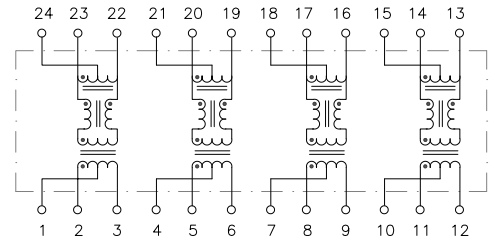
1. Please contact the factory or representative for individual datasheets or additional information.
2. For the smallest single port Gigabit transformer or dual port 10/100BASE-TX contact the factory about the proprietary *GEmini™* series.
3. Please contact factory for optimized circuit.
4. Contact factory for "LF" lead free availability.

# HALO Gigabit Family of Ethernet Transformers

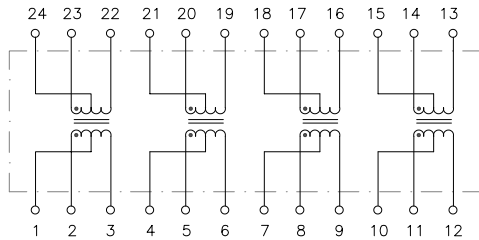
## Circuit A



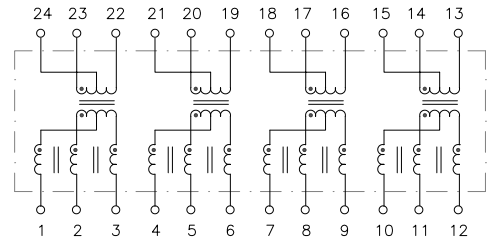
## Circuit B



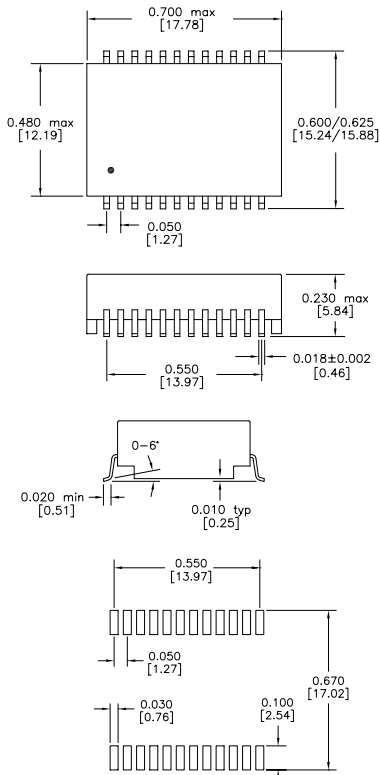
## Circuit C



## Circuit D

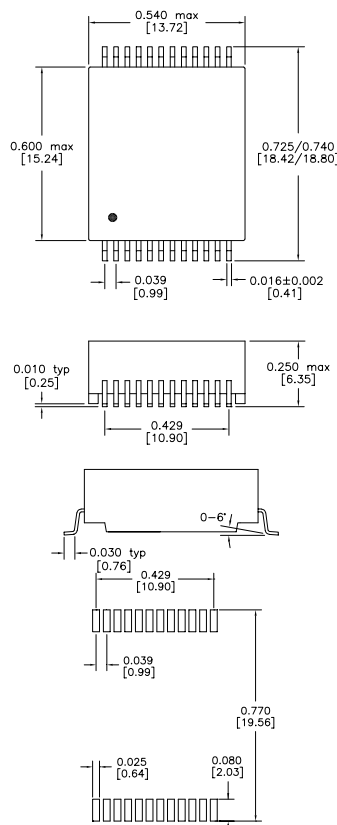


## NZ Package



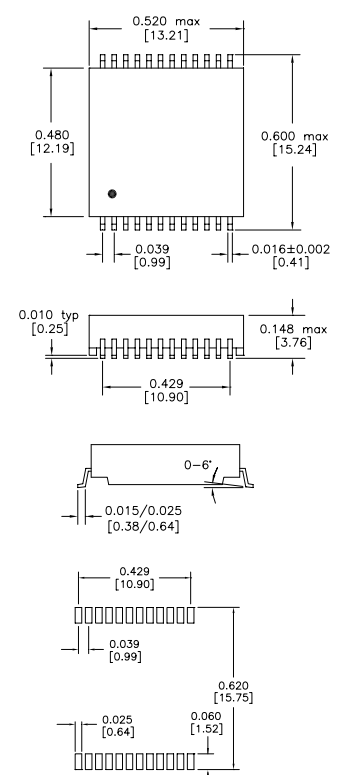
Recommended Solder Pad Layout  
Dimensions: inch [mm]  
Co-Planarity: 0.004 [0.10]

## NY Package



Recommended Solder Pad Layout

## J24 Package



Recommended Solder Pad Layout



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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.

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Skype [ameyasales1](#) [ameyasales2](#)

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