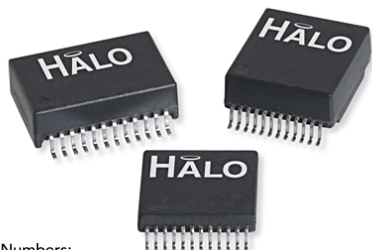


Single Port GigE Transformer

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

HALO
ELECTRONICS, INC.



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

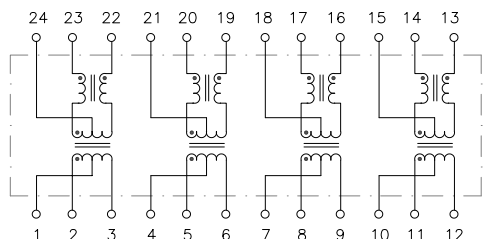
Part Number	Circuit	Package	Temp. Range	1-40MHz	Return Loss (min)			OCL (min) (100KHz, 0.1Vrms, 8mA)
					60MHz	80MHz	100MHz	
TG1G-S001NZRL	A	NZ	0 to 70°C	-18dB	-14dB	-12dB	-10dB	350μH
TG1G-E001NZRL	A	NZ	-40 to +85°C	-18dB	-14dB	-12dB	-10dB	350μH
TG1G-S002NZRL	B	NZ	0 to 70°C	-18dB	-14dB	-12dB	-10dB	350μH
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 ³	A	J24	0 to 70°C	-18dB	-14dB	-12dB	-10dB	350μH
TG111-E001J24RL ³	A	J24	-40 to +85°C	-18dB	-14dB	-12dB	-10dB	350μH

Notes:

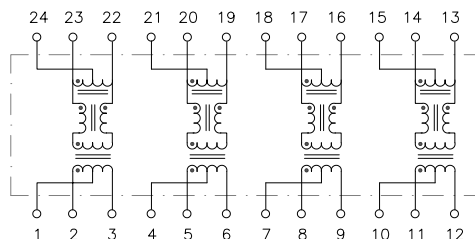
1. Please contact the factory or representative for individual datasheets or additional information.
2. For the smallest single port Gigabit transformer or dual port 10/100BASE-TX contact the factory about the proprietary *GEmini™* series.
3. Please contact factory for optimized circuit.
4. Contact factory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

HALO Gigabit Family of Ethernet Transformers

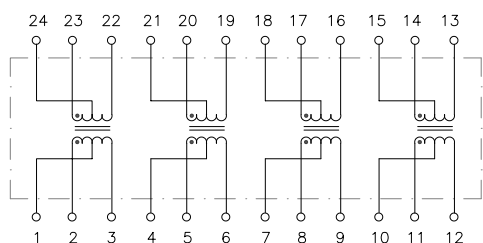
Circuit A



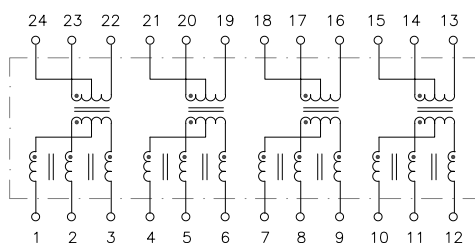
Circuit B



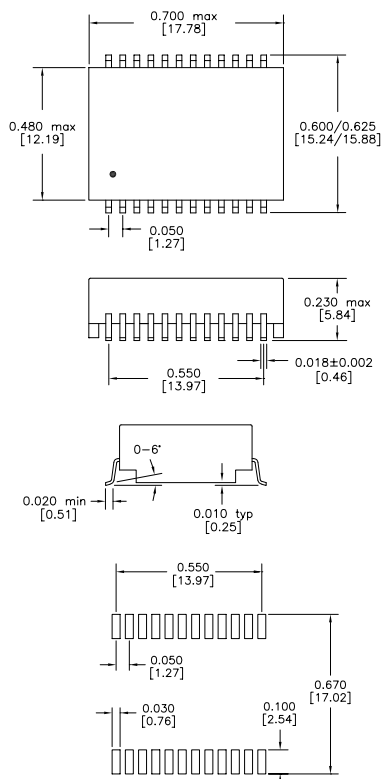
Circuit C



Circuit D

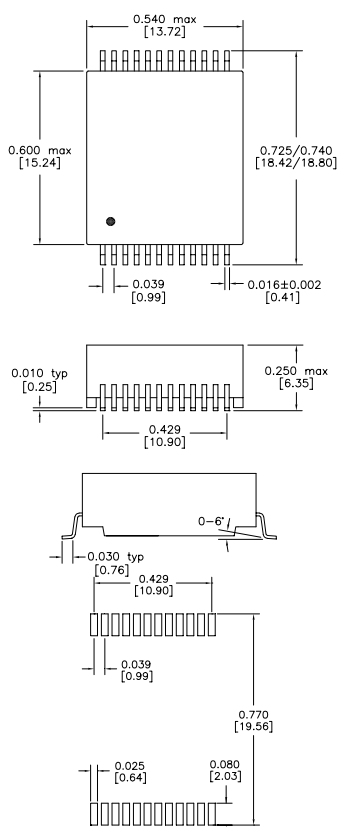


NZ Package



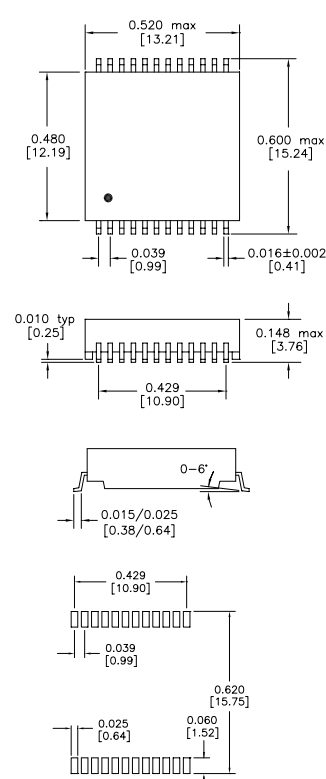
Recommended Solder Pad Layout
Dimensions: inch [mm]
Co-Planarity: 0.004 [0.10]

NY Package



Recommended Solder Pad Layout

J24 Package



Recommended Solder Pad Layout

HALO
ELECTRONICS, INC.

2880 Lakeside Drive #116
Santa Clara, CA 95054
(650) 903-3800

www.halo-electronics.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.