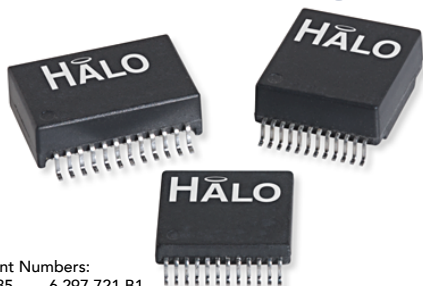


Single Port GigE Transformer

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	Return Loss (min)				OCL (min) (100KHz, 0.1Vrms, 8mA)	RoHS ¹
				1-40MHz	60MHz	80MHz	100MHz		
TG1G-S001NZLF	A	NZ	0 to 70°C	-18dB	-14dB	-12dB	-10dB	350μH	Pb-Free
TG1G-S001NZRL	A	NZ	0 to 70°C	-18dB	-14dB	-12dB	-10dB	350μH	RoHS (7a)
TG1G-E001NZLF	A	NZ	-40 to +85°C	-18dB	-14dB	-12dB	-10dB	350μH	Pb-Free
TG1G-E001NZRL	A	NZ	-40 to +85°C	-18dB	-14dB	-12dB	-10dB	350μH	RoHS (7a)
TG1G-S002NZLF	B	NZ	0 to 70°C	-18dB	-14dB	-12dB	-10dB	350μH	Pb-Free
TG1G-S002NZRL	B	NZ	0 to 70°C	-18dB	-14dB	-12dB	-10dB	350μH	RoHS (7a)
TG1G-S010NZLF	C	NZ	0 to 70°C	-18dB	-14dB	-12dB	-10dB	350μH	Pb-Free
TG1G-S010NZRL	C	NZ	0 to 70°C	-18dB	-14dB	-12dB	-10dB	350μH	RoHS (7a)
TG1G-E010NZLF	C	NZ	-40 to +85°C	-18dB	-14dB	-12dB	-10dB	350μH	Pb-Free
TG1G-E010NZRL	C	NZ	-40 to +85°C	-18dB	-14dB	-12dB	-10dB	350μH	RoHS (7a)
TG1G-S012NZLF	D	NZ	0 to 70°C	-18dB	-14dB	-12dB	-10dB	350μH	Pb-Free
TG1G-S012NZRL	D	NZ	0 to 70°C	-18dB	-14dB	-12dB	-10dB	350μH	RoHS (7a)
TG1G-E012NZLF	D	NZ	-40 to +85°C	-18dB	-14dB	-12dB	-10dB	350μH	Pb-Free
TG1G-E012NZRL	D	NZ	-40 to +85°C	-18dB	-14dB	-12dB	-10dB	350μH	RoHS (7a)

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. For the smallest single port Gigabit transformer or dual port 10/100BASE-TX contact the factory about the proprietary GEmini™ series.
4. Please contact the factory or representative for individual datasheets or additional information.

Single Port GigE Transformer

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

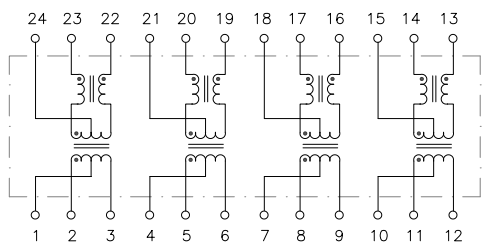


Part Number	Circuit	Package	Temp. Range	Return Loss (min)				OCL (min) (100KHz, 0.1Vrms, 8mA)	RoHS ¹
				1-40MHz	60MHz	80MHz	100MHz		
TG1G-S031NYLF	A	NY	0 to 70°C	-18dB	-14dB	-12dB	-10dB	350μH	Pb-Free
TG1G-S031NYRL	A	NY	0 to 70°C	-18dB	-14dB	-12dB	-10dB	350μH	RoHS (7a)
TG1G-S031NYLF	A	NY	0 to 70°C	-18dB	-14dB	-12dB	-10dB	350μH	Pb-Free
TG1G-S031NYRL	A	NY	0 to 70°C	-18dB	-14dB	-12dB	-10dB	350μH	RoHS (7a)
TG1G-E001NYLF	A	NY	-40 to +85°C	-18dB	-14dB	-12dB	-10dB	350μH	Pb-Free
TG1G-E001NYRL	A	NY	-40 to +85°C	-18dB	-14dB	-12dB	-10dB	350μH	RoHS (7a)
TG1G-S032NYLF	B	NY	0 to 70°C	-18dB	-14dB	-12dB	-10dB	350μH	Pb-Free
TG1G-S032NYRL	B	NY	0 to 70°C	-18dB	-14dB	-12dB	-10dB	350μH	RoHS (7a)
TG111-E032NYLF	B	NY	-40 to +85°C	-18dB	-14dB	-12dB	-10dB	350μH	Pb-Free
TG111-E032NYRL	B	NY	-40 to +85°C	-18dB	-14dB	-12dB	-10dB	350μH	RoHS (7a)
TG1G-S035NYLF	C	NY	0 to 70°C	-18dB	-14dB	-12dB	-10dB	350μH	Pb-Free
TG1G-S035NYRL	C	NY	0 to 70°C	-18dB	-14dB	-12dB	-10dB	350μH	RoHS (7a)
TG1G-E035NYLF	C	NY	-40 to +85°C	-18dB	-14dB	-12dB	-10dB	350μH	Pb-Free
TG1G-E035NYRL	C	NY	-40 to +85°C	-18dB	-14dB	-12dB	-10dB	350μH	RoHS (7a)
TG111-E112NYLF	D	NY	-40 to +85°C	-18dB	-14dB	-12dB	-10dB	350μH	Pb-Free
TG111-E112NYRL	D	NY	-40 to +85°C	-18dB	-14dB	-12dB	-10dB	350μH	RoHS (7a)
TG111-S001J24RL	A	J24	0 to 70°C	-18dB	-14dB	-12dB	-10dB	350μH	RoHS (7a)
TG111-E001J24RL	A	J24	-40 to +85°C	-18dB	-14dB	-12dB	-10dB	350μH	RoHS (7a)

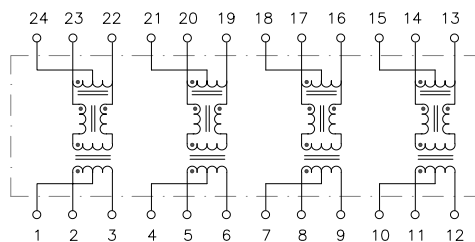
Notes:

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.
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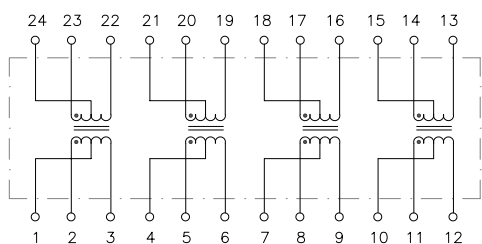
Circuit A



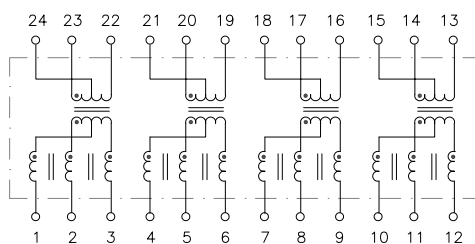
Circuit B



Circuit C

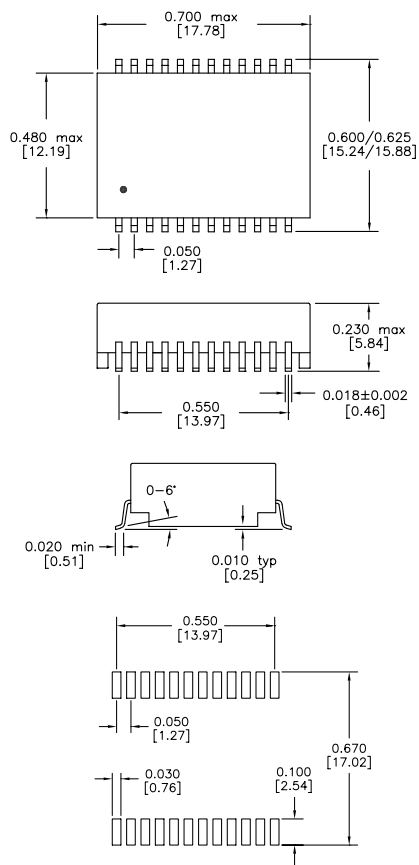


Circuit D



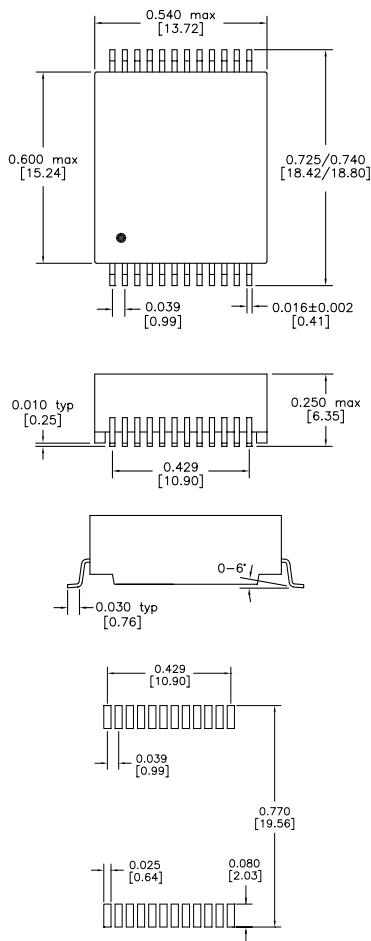
For additional information contact your [local representative](#), or HALO's support staff at (650) 903-3800 or info@haloelectronics.com

NZ Package



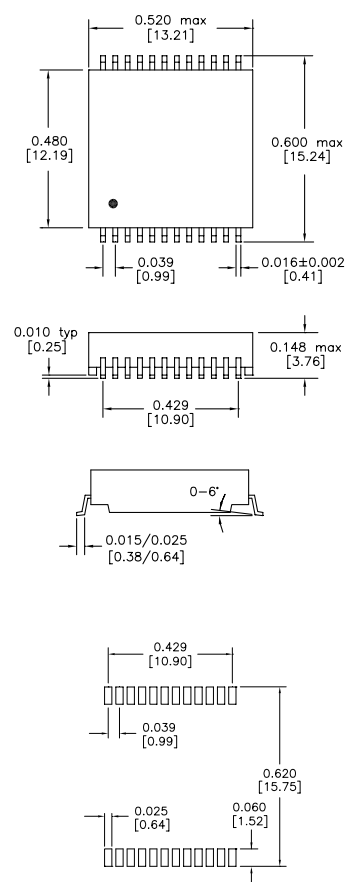
Recommended Solder Pad Layout
Dimensions: inch [mm]
Co-Planarity: 0.004 [0.10]

NY Package



Recommended Solder Pad Layout

J24 Package



Recommended Solder Pad Layout



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