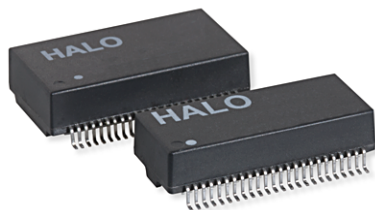


# Dual Port GigE Transformer

SMD 48 Pin Dual Port Gigabit or Quad Port 10/100BASE-TX Transformer



## Product Features:

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

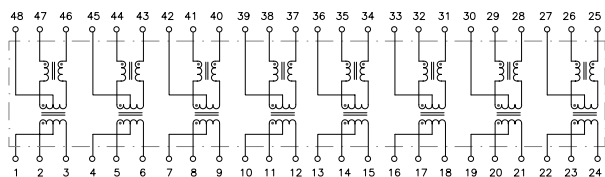
| Part Number    | Circuit | Package | Temp.<br>Range | 1-40MHz | Return Loss (min) |       |        | OCL (min)<br>(100KHz, 0.1Vrms, 8mA) |
|----------------|---------|---------|----------------|---------|-------------------|-------|--------|-------------------------------------|
|                |         |         |                |         | 60MHz             | 80MHz | 100MHz |                                     |
| TG1G-S231NVRL  | A       | NV      | 0 to 70°C      | -18dB   | -14dB             | -12dB | -10dB  | 350μH                               |
| TG1G-E233NVRL  | A       | NV      | -40 to +85°C   | -18dB   | -14dB             | -12dB | -10dB  | 350μH                               |
| TG1G-S232NVRL  | B       | NV      | 0 to 70°C      | -18dB   | -14dB             | -12dB | -10dB  | 350μH                               |
| TG1G-E234NVRL  | B       | NV      | -40 to +85°C   | -18dB   | -14dB             | -12dB | -10dB  | 350μH                               |
| TG1G-S201NV6RL | A       | NV6     | 0 to 70°C      | -18dB   | -14dB             | -12dB | -10dB  | 350μH                               |
| TG1G-E201NV6RL | A       | NV6     | -40 to +85°C   | -18dB   | -14dB             | -12dB | -10dB  | 350μH                               |
| TG1G-S202NV6RL | B       | NV6     | 0 to 70°C      | -18dB   | -14dB             | -12dB | -10dB  | 350μH                               |
| TG1G-S205NV6RL | C       | NV6     | 0 to 70°C      | -18dB   | -14dB             | -12dB | -10dB  | 350μH                               |
| TG1G-S212NV6RL | D       | NV6     | 0 to 70°C      | -18dB   | -14dB             | -12dB | -10dB  | 350μH                               |
| TG1G-E212NV6LF | D       | NV6     | -40 to +85°C   | -18dB   | -14dB             | -12dB | -10dB  | 350μH                               |

## Notes:

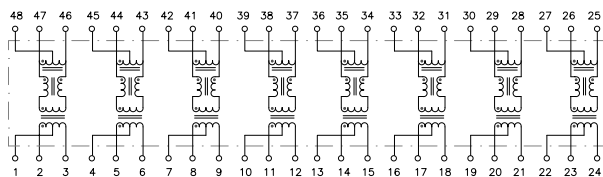
1. Please contact the factory or representative for individual datasheets or additional information.
2. For the smallest dual port Gigabit or quad port 10/100BASE-TX transformers contact the factory about the 50 pin package.
3. Contact factory for "LF" lead free availability.

# HALO Dual Port Gigabit Ethernet Transformers

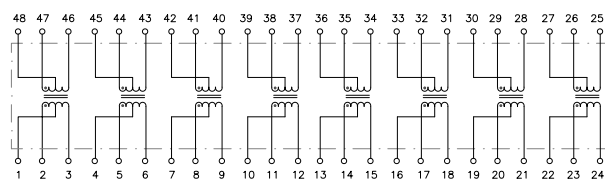
## Circuit A



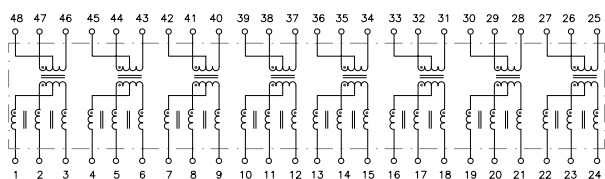
## Circuit B



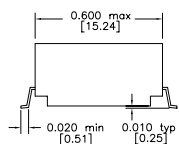
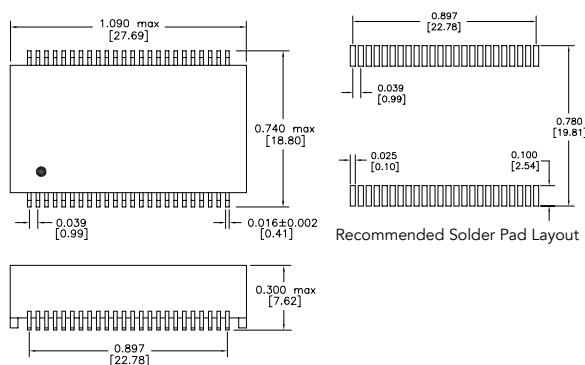
## Circuit C



## Circuit D



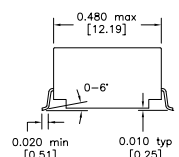
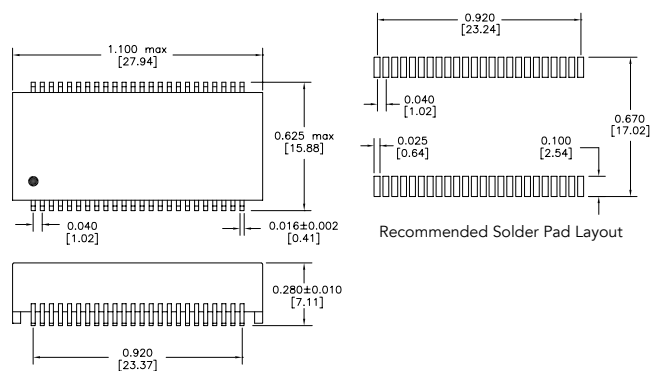
## NV Package



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

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

## NV6 Package



Dimensions: inch [mm]

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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.