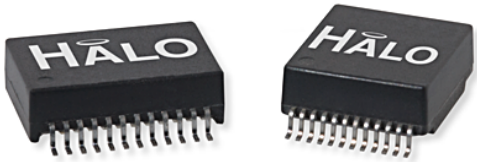


Gigabit PoE Transformer



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



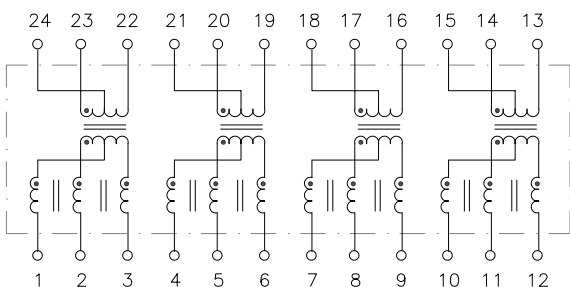
Product Features:

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



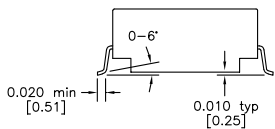
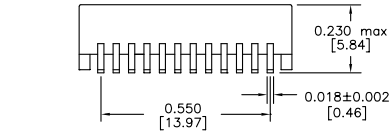
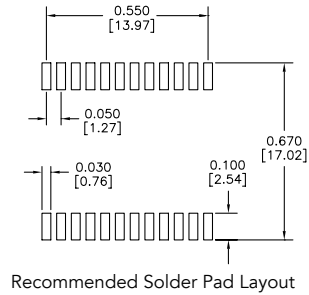
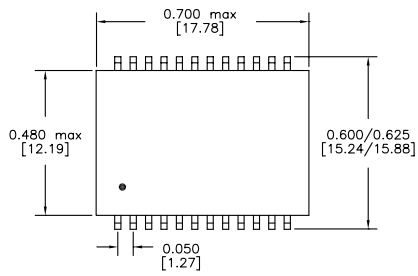
Notes:

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

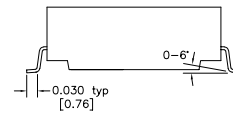
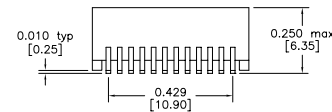
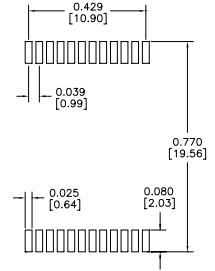
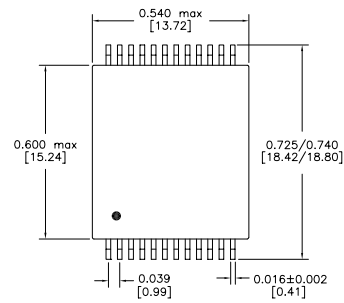
HALO Gigabit Family of Ethernet Transformers

NZ Package



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

NY Package



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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