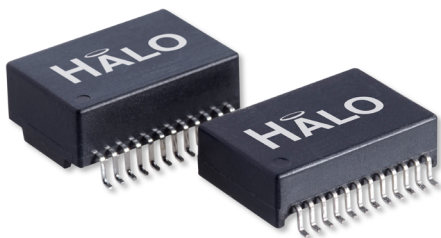


# 10GBASE-T Transformer

SMD 10GBASE-T 24-Pin Single Port Isolation Modules



## Product Features:

- 10GBASE-T Ethernet Transformer/CMR Choke
- IEEE802.3an/af/at/bt Compliant Options
- 4PPoE - 4 Pair Power over Ethernet Available
- UL/EN60950 Recognized
- 100% Electrical Testing
- 1500Vrms Hi-Pot
- Patented Open Frame Construction

| Part Number                 | Data Rate | Circuit | Total Power <sup>1</sup> | Current Per Pair | Operating Temp | Package | Max Height inch [mm] |
|-----------------------------|-----------|---------|--------------------------|------------------|----------------|---------|----------------------|
| TG10G-S100NJLF              | 10G       | A       | -                        | -                | 0 to 70°C      | NJ      | 0.250 [6.35]         |
| TG10G-S101NJLF              | 10G       | B       | -                        | -                | 0 to 70°C      | NJ      | 0.250 [6.35]         |
| TG10G-S102NJLF              | 10G       | C       | -                        | -                | 0 to 70°C      | NJ      | 0.250 [6.35]         |
| TG10G-RP02NJLF <sup>2</sup> | 10G       | C       | 30W                      | 350mA            | 0 to 70°C      | NJ      | 0.250 [6.35]         |
| TG10G-S12NZ5LF              | 10G       | C       | 30W                      | 350mA            | 0 to 70°C      | NZ5     | 0.255 [6.48]         |
| TG10G-E12NZ5LF              | 10G       | C       | 30W                      | 350mA            | -40 to +85°C   | NZ5     | 0.255 [6.48]         |
| TG10G-HP6NZ5LF              | 10G       | C       | 60W                      | 600mA            | 0 to 70°C      | NZ5     | 0.255 [6.48]         |
| TG10G-HPE6NZ5LF             | 10G       | C       | 60W                      | 600mA            | -40 to +85°C   | NZ5     | 0.255 [6.48]         |
| TG10G-HP10NZ5LF             | 10G       | C       | 90W                      | 1A               | 0 to 70°C      | NZ5     | 0.255 [6.48]         |
| TG10G-HPE10NZ5LF            | 10G       | C       | 90W                      | 1A               | -40 to +85°C   | NZ5     | 0.255 [6.48]         |

### Notes:

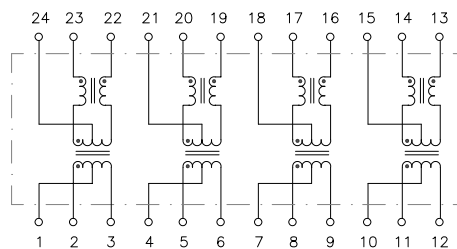
<sup>1</sup> Power rating reduced to half when using only two pairs for power as in 802.3af/802.3at applications.

<sup>2</sup> Can be used in -40 to +85°C for non-PoE applications.

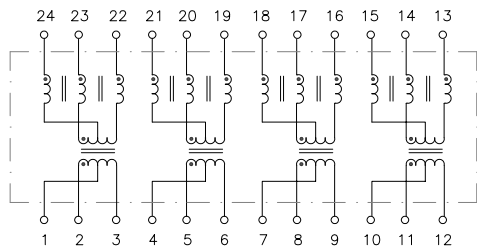
· Please contact the factory or representative for individual datasheets or additional information.

· Footprint interchangeable 2.5G/5G parts available at: <https://www.haloelectronics.com/pdf/discrete-single-2G5G.pdf>

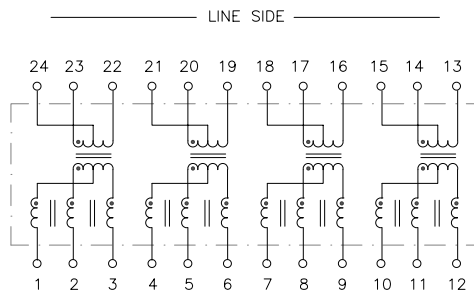
## Circuit A



## Circuit B



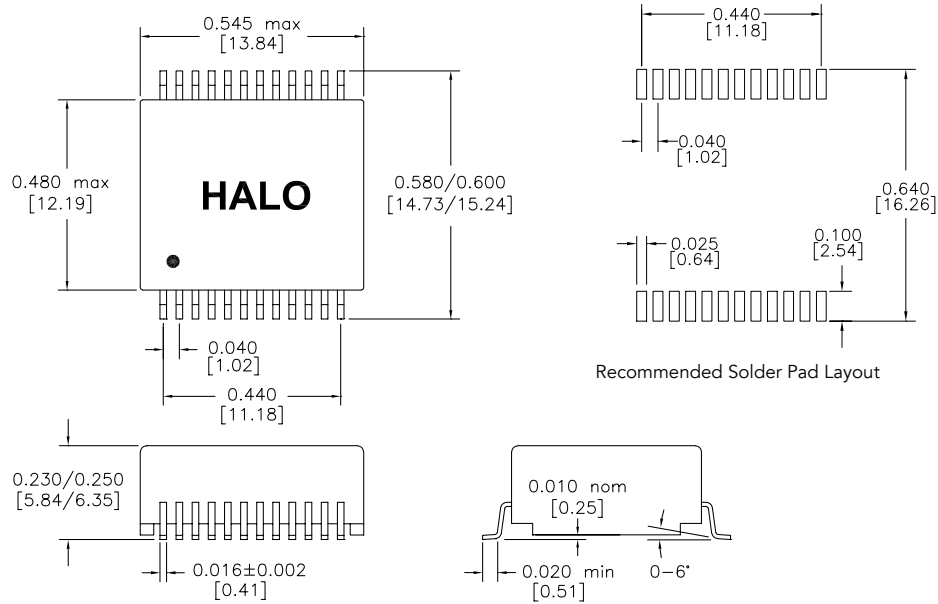
## Circuit C



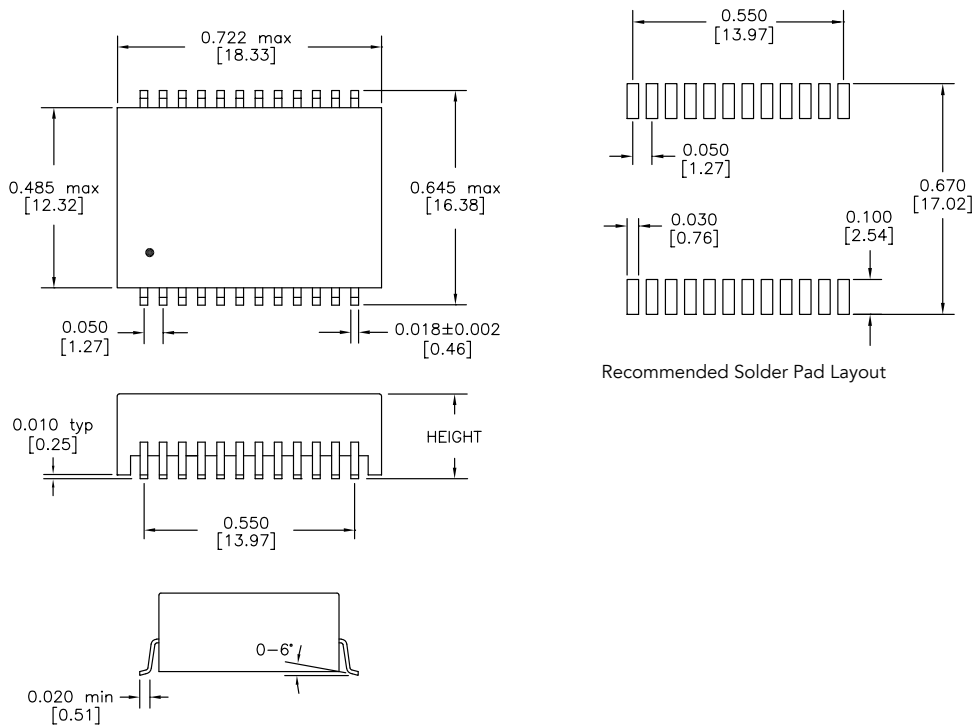
For additional information contact your [local representative](#), or HALO's support staff at (650) 903-3800 or [info@haloelectronics.com](mailto:info@haloelectronics.com)

# HALO 10GBASE-T Ethernet Transformers

## Mechanical - NJ Package



## Mechanical - NZ5 Package



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



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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 isolation modules, and integrated Ethernet connectors. HALO's high quality and competitively priced leading edge technology solutions are manufactured in ISO9001 and ISO14001 factories.