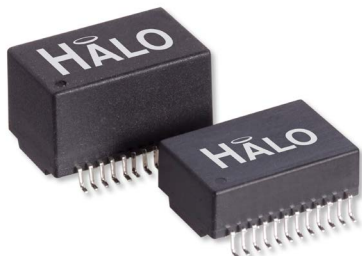


# 10GBASE-T Transformer

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



## Product Features:

- 10GBASE-T Ethernet Transformer/CMR Choke
- IEEE802.3an/af/at/bt<sup>2</sup> 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>3</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-HPE10N24LF	10G	C	90W	1A	-40 to +85°C	N24	0.470 [11.94]

### Notes:

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

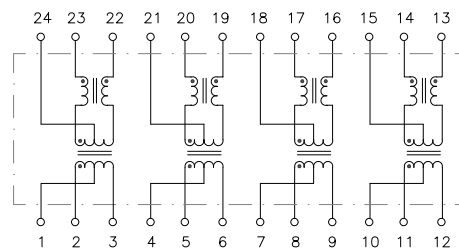
<sup>2</sup> The IEEE802.3bt standard has not been officially ratified.

<sup>3</sup> Can be used in -40 to +85°C for non-PoE applications.

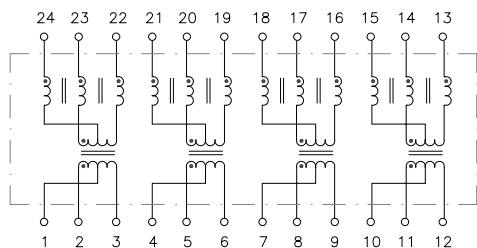
· Please contact the factory or representative for individual datasheets or additional information.

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

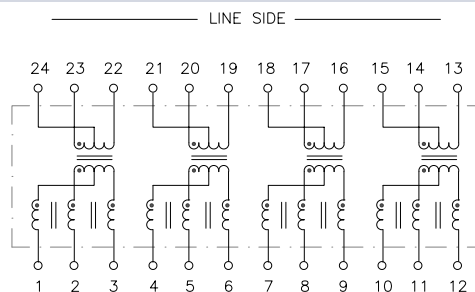
### Circuit A



### Circuit B



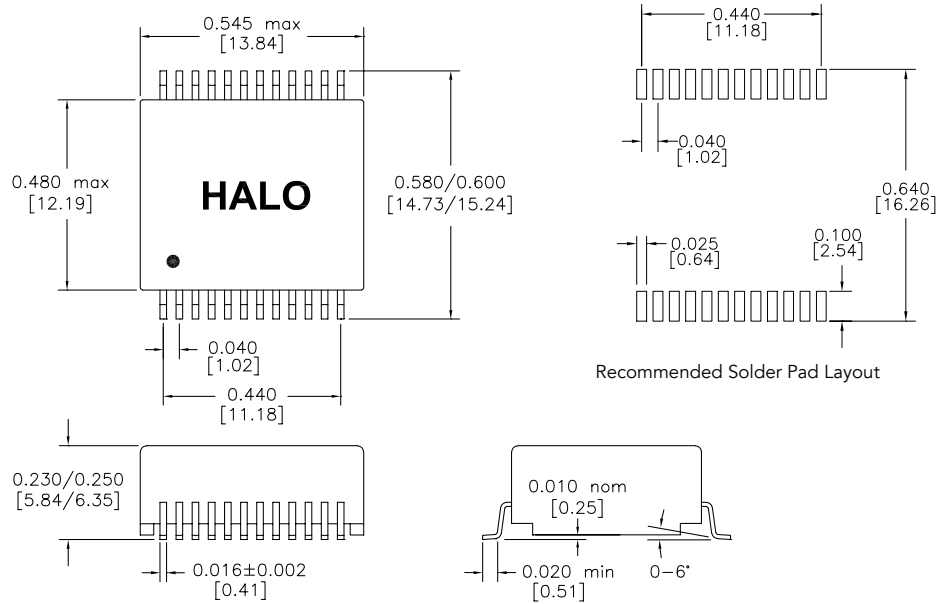
### Circuit C



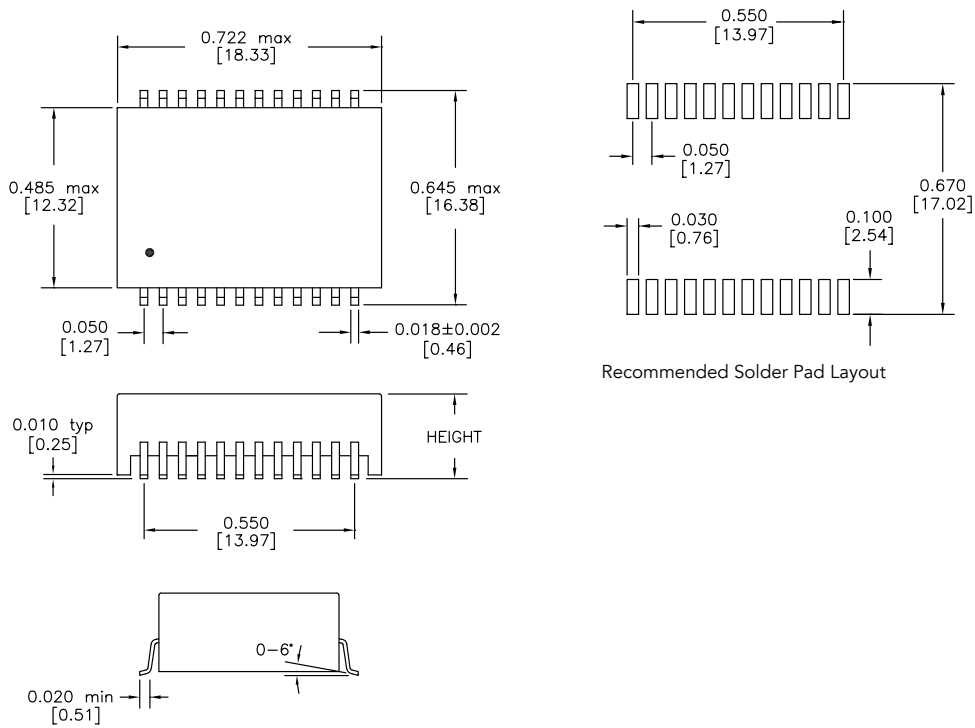
For additional information contact your [local representative](#), or HALO's support staff at (650) 903-3800 or [info@haloelectronics.com](mailto:info@haloelectronics.com)

# HALO 10GBASE-T Ethernet Transformers

## Mechanical - NJ Package



## Mechanical - NZ5 & N24 Package



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



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[www.haloelectronics.com](http://www.haloelectronics.com)

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.

HALO Electronics:

TG10G-S102NJRL TG10G-S100NJRL TG10G-S101NJRL TG10G-S101NJRLTR TG10G-S102NJRLTR TG10G-S100NJRLTR TG10G-RP02NJRL TG10G-RP02NJLF TG10G-S100NJLF TG10G-S100NJLFTR TG10G-RP02NJLFTR