2.5G & 5G Transformers















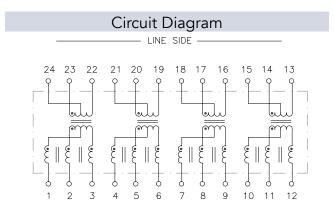
Product Features:

- 2.5G/5GBASE-T Ethernet Transformer/CMR
- IEEE802.3bz/af/at/bt Compliant
- 4PPoE 4 Pair Power over Ethernet
- UL/EN60950 Recognized
- 100% Electrical Testing
- 1500Vrms Hi-Pot
- Designed for PSE and PD PoE Applications

Part Number	Data Rate	Total Power ¹	Current Per Pair	Operating Temp	DCR (max)	Package	Max Height inch [mm]
TG2G-S102NJLF	2.5G	30W	350mA	0 to +70°C	0.6Ω	NJ	0.250 [6.35]
TG2G-E102NJLF	2.5G	30W	350mA	-40 to +85°C	0.6Ω	NJ	0.250 [6.35]
TG2G-S12NZLF	2.5G	30W	350mA	0 to +70°C	0.6Ω	NZ	0.230 [5.84]
TG2G-E12NZLF	2.5G	30W	350mA	-40 to +85°C	0.6Ω	NZ	0.230 [5.84]
TG2G-HP6NZLF	2.5G	60W	600mA	0 to +70°C	0.5Ω	NZ	0.230 [5.84]
TG2G-HPE6NZLF	2.5G	60W	600mA	-40 to +85°C	0.5Ω	NZ	0.230 [5.84]
TG2G-HP10NZ5LF	2.5G	90W	1A	0 to +70°C	0.4Ω	NZ5	0.255 [6.48]
TG2G-HPE10NZ5LF	2.5G	90W	1A	-40 to +85°C	0.4Ω	NZ5	0.255 [6.48]
TG5G-S12NZ5LF	5G	30W	350mA	0 to +70°C	0.5Ω	NZ5	0.255 [6.48]
TG5G-E12NZ5LF	5G	30W	350mA	-40 to +85°C	0.5Ω	NZ5	0.255 [6.48]
TG5G-HP6NZ5LF	5G	60W	600mA	0 to +70°C	0.5Ω	NZ5	0.255 [6.48]
TG5G-HPE6NZ5LF	5G	60W	600mA	-40 to +85°C	0.5Ω	NZ5	0.255 [6.48]
TG5G-HP10NZ5LF	5G	90W	1A	0 to +70°C	0.4Ω	NZ5	0.255 [6.48]
TG5G-HPE10NZ5LF	5G	90W	1A	-40 to +85°C	0.4Ω	NZ5	0.255 [6.48]

Notes:

[·] Footprint interchangeable 10G parts available at https://www.haloelectronics.com/pdf/discrete-10gbaset.pdf

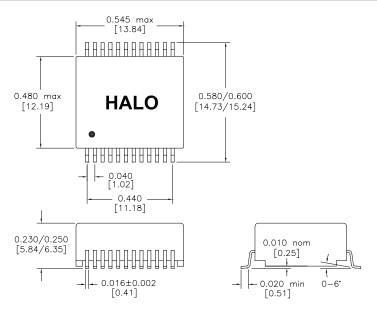


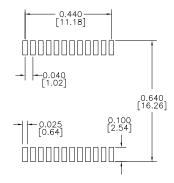
¹ Power rating reduced to half when using only two pairs for power as in 802.3af/802.3at applications.

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

HALO 2.5G and 5G Ethernet Transformers

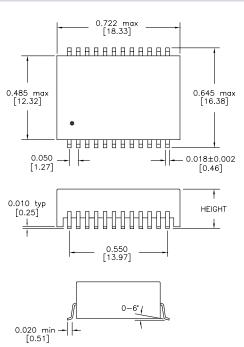
Mechanical - NJ Package

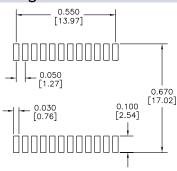




Recommended Solder Pad Layout

Mechanical - NZ & NZ5 Package





Recommended Solder Pad Layout

Patented Construction
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

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



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