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	1-40MHz	Return L 60MHz	oss (min) 80MHz	100MHz	Insertion Loss (max)	RoHS¹
TG111-S112NYLF	A	NY	0 to 70°C	PoE	-18dB	-14dB	-12dB	-10dB	-1.1dB	Pb-Free
TG111-S112NYRL	А	NY	0 to 70°C	PoE	-18dB	-14dB	-12dB	-10dB	-1.1dB	RoHS (7a)
TG111-E112NYLF	Α	NY	-40 to +85°C	PoE	-18dB	-14dB	-12dB	-10dB	-1.1dB	Pb-Free
TG111-E112NYRL	А	NY	-40 to +85°C	PoE	-18dB	-14dB	-12dB	-10dB	-1.1dB	RoHS (7a)
TG1G-S012NZLF	Α	NZ	0 to 70°C	PoE	-18dB	-14dB	-12dB	-10dB	-1.1dB	Pb-Free
TG1G-S012NZRL	Α	NZ	0 to 70°C	PoE	-18dB	-14dB	-12dB	-10dB	-1.1dB	RoHS (7a)
TG1G-E012NZLF	Α	NZ	-40 to +85°C	PoE	-18dB	-14dB	-12dB	-10dB	-1.1dB	Pb-Free
TG1G-E012NZRL	Α	NZ	-40 to +85°C	PoE	-18dB	-14dB	-12dB	-10dB	-1.1dB	RoHS (7a)
TG111-HP3NZLF*	Α	NZ	0 to 70°C	PoE+	-18dB	-14dB	-12dB	-10dB	-1.1dB	Pb-Free
TG111-HP3NZRL*	Α	NZ	0 to 70°C	PoE+	-18dB	-14dB	-12dB	-10dB	-1.1dB	RoHS (7a)
TG111-HPE3NZLF*	Α	NZ	-40 to +85°C	PoE+	-18dB	-14dB	-12dB	-10dB	-1.1dB	Pb-Free
TG111-HPE3NZRL*	А	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

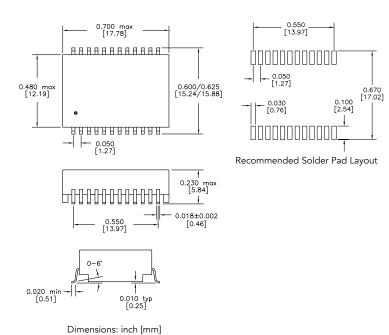
Notes:

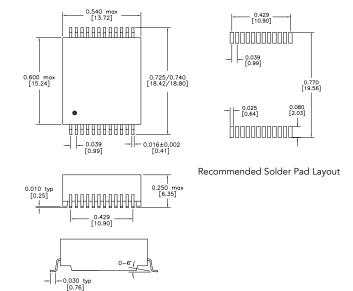
- 1. Pb-Free parts are RoHS 6/6 compliant. RoHS (7a) parts contain lead per exemption 7a which is set to expire in July 2016.
- 2. Parts with RL suffix are not recommended for new designs.
- 3. Please contact the factory or representative for individual datasheets or additional information.
- 4. For the smallest single port Gigabit or dual port 10/100BASE-TX PoE/PoE+ transformer contact the factory about the proprietary *GEmini™ series*.

HALO Gigabit Family of Ethernet Transformers

NZ Package

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



Co-Planarity: 0.004 [0.10]

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.