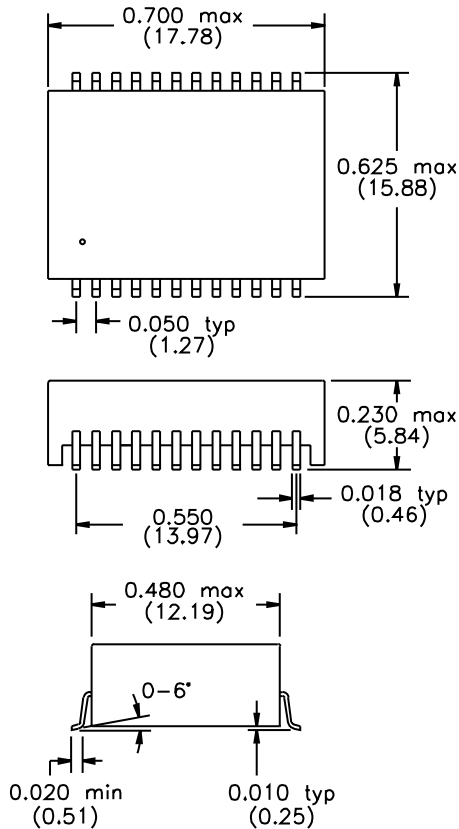


HALO Electronics is pleased to present this standard series of high performance Gigabit Ethernet Isolation Modules to specifically address the isolation, insertion loss and return loss requirements of IEEE 802.3ab for 1000BASE-T applications. Available in a low profile 24 pin SMD package. Isolation Modules are available for most LAN IC manufacturer's products.



NZ Package



DIMENSIONS : Inch(mm)
CO-PLANARITY : 0.004(0.102)

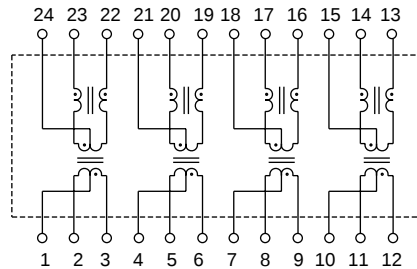
Patented Construction

US Pat Nbrs: 5,656,985
6,297,721 B1
6,297,720 B1
6,320,489 B1
6,344,785 B1

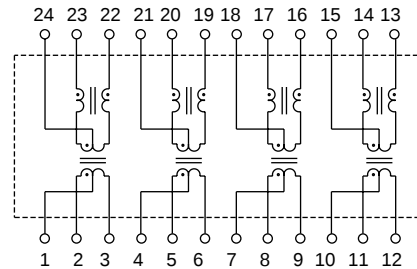
Electrical Specifications @ 25°C

Isolation Voltage:	1,500 Vrms
OCL (100KHz, 0.1Vrms, 8mA):	350 μ H min.
Rise Time:	1.75 nS Typ.
Cross Talk	33-20(f/100MHz)
CMR (0.1 -100Mhz)	-30dB min.

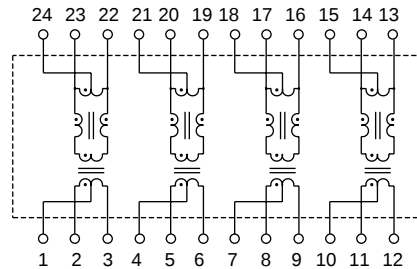
Schematic A



Schematic B



Schematic C



RoHS compliant versions are available.

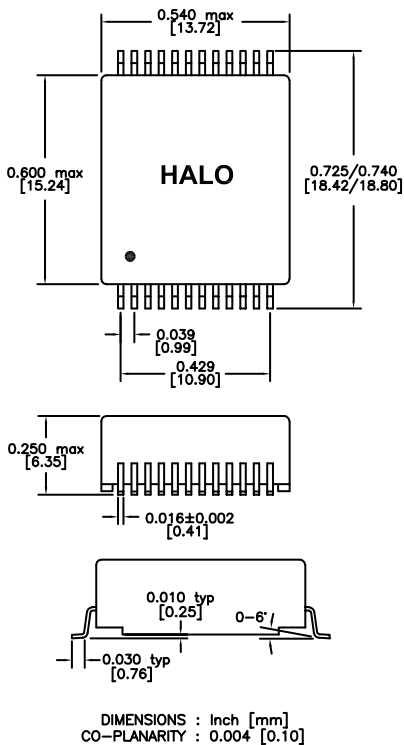
Specify RoHS compliant product by adding the suffix "RL".

Part Number	Turns	Circuit	Insertion Loss	Return Loss (min)			
	Ratio $\pm 2\%$	Schematic	(1-100Mhz)	1-40Mhz	60Mhz	80Mhz	100Mhz
TG1G-3506NZ	1CT:1CT	A	-1.0 max	-18dB	-14.5dB	-12dB	-10dB
TG1G-S001NZ	1CT:1CT	B	-1.0 max	-18dB	-14.5dB	-12dB	-10dB
TG1G-S002NZ	1CT:1CT	C	-1.1 max	-18dB	-14.5dB	-12dB	-10dB

HALO Electronics is pleased to present this standard series of high density, high performance Gigabit Ethernet Isolation Modules. These devices have been designed specifically to address the isolation, insertion loss and return loss requirements of IEEE802.3ab for 10/100/1000BASE-TX applications. Compatible with all leading Phy vendors' gigabit IC's. Dual port versions are also available.



NY Package



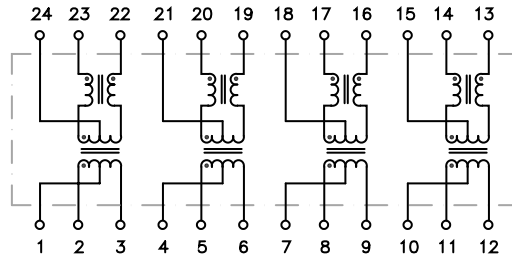
Electrical Specifications @ 25°C

Isolation Voltage:	1,500 Vrms
OCL (100KHz, 0.1Vrms, 8mA):	350 μ H
Turns Ratio:	1CT:1CT
Rise Time:	1.75nS
CMR (0.1 – 100MHz):	-40dB typ. (not applicable to Circuit C)
Crosstalk:	[33-20log (F/100MHz)]dB typ

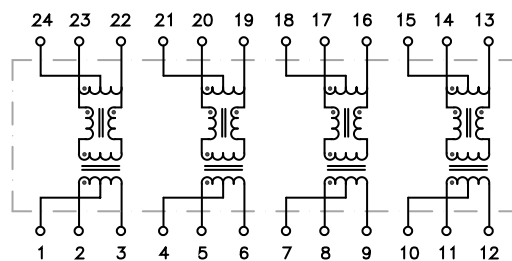


RoHS compliant versions are available.
Specify RoHS compliant product by adding the suffix "RL".

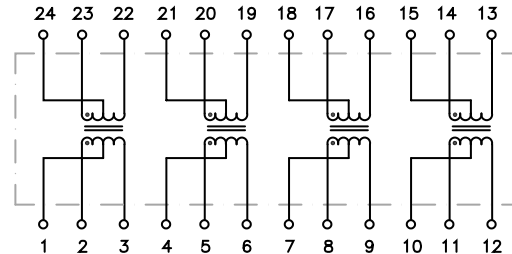
Schematic A



Schematic B



Schematic C



Patented Construction

US Pat Nbrs: 5,656,985
6,297,721 B1
6,297,720 B1
6,320,489 B1
6,344,785 B1

Part Number	Circuit	Insertion Loss	Return Loss (min)				Temp Range
	Schematic	(1-100MHz)	1-40MHz	60MHz	80MHz	100MHz	
TG1G-S031NY	A	-1.0dB max	-18dB	-14dB	-12dB	-10dB	0 - 70C
TG1G-S032NY	B	-1.1dB max	-18dB	-14dB	-12dB	-10dB	0 - 70C
TG1G-S035NY	C	-1.0dB max	-18dB	-14dB	-12dB	-10dB	0 - 70C
TG1G-E001NY	A	-1.1dB max	-18dB	-14dB	-12dB	-10dB	-40to+85C