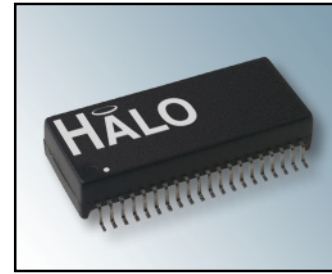
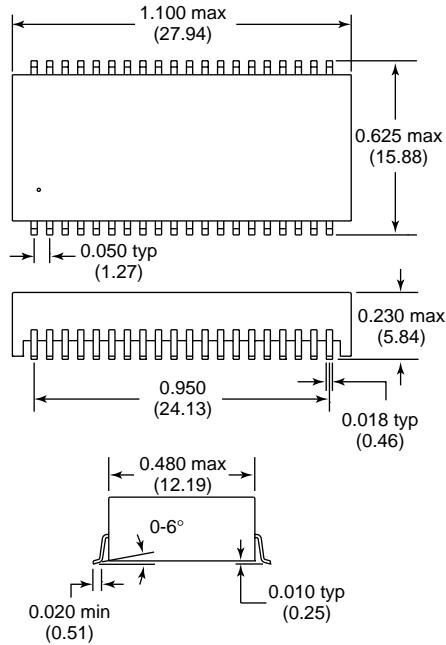


HALO Electronics has developed this high density series of Line Interface Modules for real estate sensitive T-1, E-1, PRI ISDN and CEPT applications. Designed to meet the requirements of G.703. UL1950, IEC950 and EN60950 recognized. Isolation Modules are available for most Line Interface IC manufacturers' products. To select the correct Isolation Module please contact your local HALO Representative or the HALO office nearest you.



NX Package

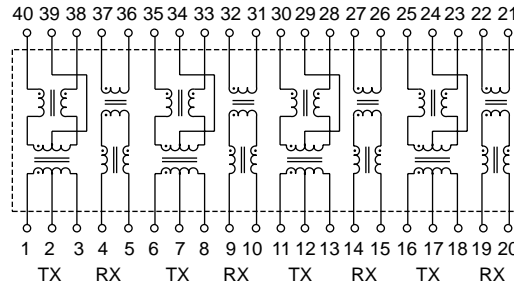


DIMENSIONS : Inch(mm)
CO-PLANARITY : 0.004(0.102)

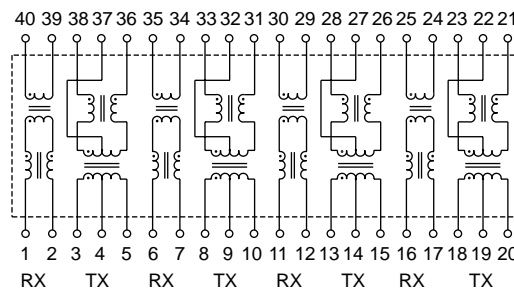
Patented Construction

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

Circuit A



Circuit B



Electrical Specifications @ 25°C

Isolation Voltage:	1,500 Vrms
OCL (100KHz, 0.1Vrms, 8mA):	350 μ H min.
DCR:	0.6 Ω Max.
Rise Time:	1.75 nS Typ.
Return Loss:	0.5-40MHz -18dB min 60MHZ -14.0dB min 80MHZ -12dB min 100Mhz -10dB min
Cross Talk (0.1-100 Mhz):	-35dB min
CMR:	2MHz -60dB min 50MHz -39dB min 100 MHz -33dB min

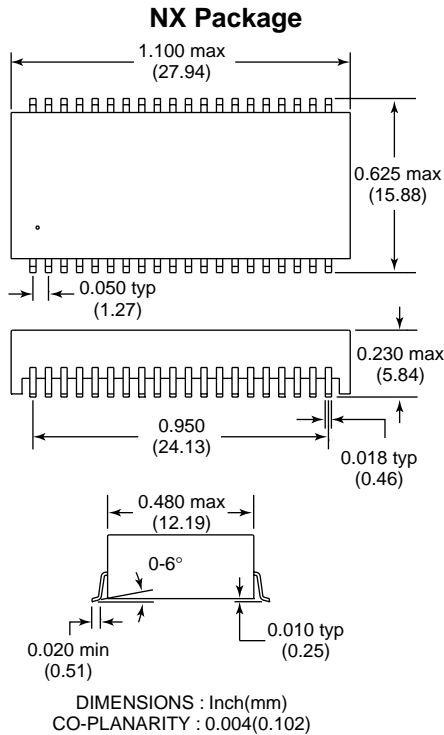
Part Number	Turns ratio		Cw/w (pF typ)	LL (μ H max)	DCR (Ω max)	Circuit Diagram
	TX	RX				
TG110-6506NX	1CT:1CT	1:1	15	0.4	0.9	A
TG110-S420NX	2CT:1CT	1:1	15	0.4	0.9	A
TG110-S425NX	2CT:1CT	1:1	15	0.4	0.9	B
TG110-S437NX	1.25CT:1CT	1:1	15	0.4	0.9	B
TG110-S438NX	1.25CT:1CT	1:1	15	0.4	0.9	A
TG110-S450NX	1CT:1CT	1:1	15	0.4	0.9	B
TG110-S460NX*	2CT:1CT	1:1	15	0.4	0.9	A
TG110-S465NX*	2CT:1CT	1:1	15	0.4	0.9	B

* (Enhanced TX Return Loss)

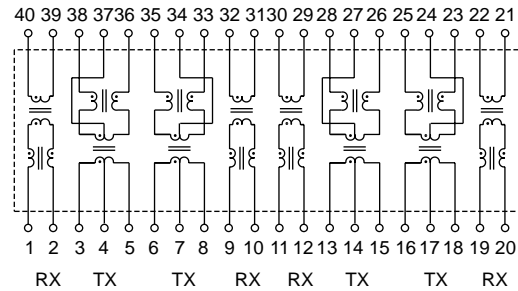
Note: Please contact the factory for detailed data sheets.



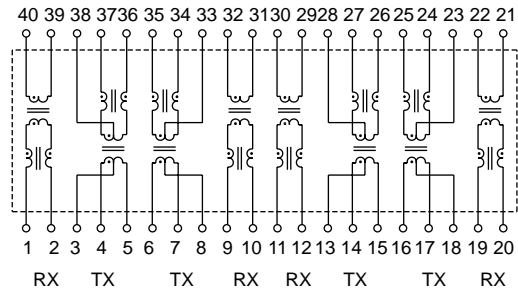
HALO Electronics has developed this standard series of "Quad Port" 10/100 Isolation Modules to specifically address the isolation, insertion loss and return loss requirements of IEEE 802.3u. Available in an easy to use, 40 pin low profile package. Isolation Modules are available for most LAN IC manufacturer's products. To select the correct Isolation Module please refer to the HALO Electronics 10/100 Selector Guide or contact your local HALO sales representative.



Circuit A



Circuit B



Electrical Specifications @ 25°C

Isolation Voltage: 1,500 Vrms
 OCL (100KHz, 0.1Vrms, 8mA): 350 μ H Min.
 Cross Talk (0.1-100 Mhz): -38 dB Min.
 CMR (0.1-100Mhz): -40 dB Typ.
 Circuit Layout Rx-Tx, Tx-Rx

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	Turns ratio		Cw/w (pF typ)	LL (μ H max)	DCR (Ω max)	Circuit Diagram
	TX	RX				
TG110-S422NX	2CT:1CT	1:1	15	0.4	0.9	A
TG110-S423NX	2CT:1CT	1:1	15	0.4	0.9	B
TG110-S452NX	1CT:1CT	1:1	15	0.4	0.9	A
TG110-S453NX	1CT:1CT	1:1	15	0.4	0.9	B
TG110-S462NX*	2CT:1CT	1:1	15	0.4	0.9	A
TG110-S463NX*	2CT:1CT	1:1	15	0.4	0.9	B

* (Enhanced TX Return Loss)

Note: Please contact the factory for detailed data sheets.