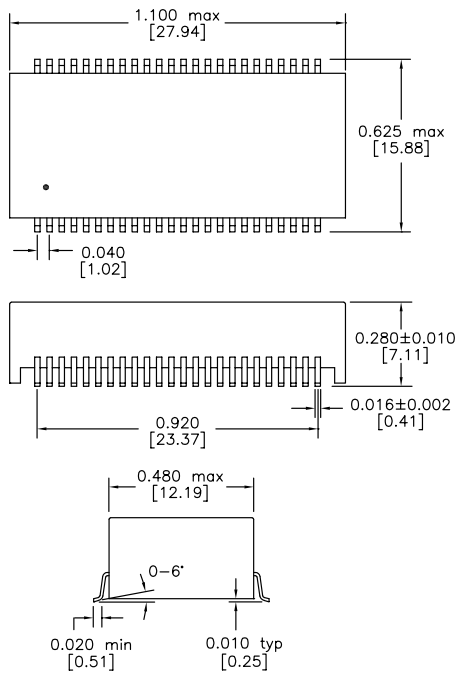


HALO Electronics offers a complete family of quad port, “PoE”, solutions. Available in both commercial and industrial temperature ranges. Designed to meet the requirements of IEEE802.3af with 350 mA current capability. Auto-MDIX compatible.

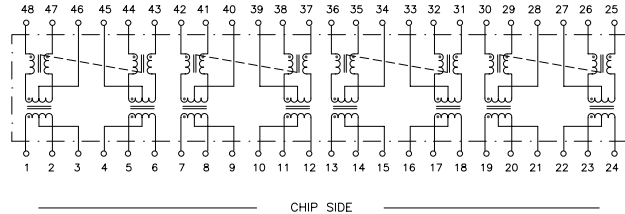


NV6 Package

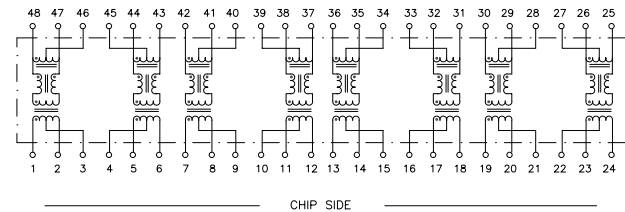


DIMENSIONS: Inch [mm]
CO-PLANARITY: 0.004 [0.10]

Circuit Diagram A



Circuit Diagram B



Electrical Specifications @ 25°C

Isolation Voltage:	1,500Vrms
Turns Ratio, TX & RX:	1CT:1CT
Insertion Loss (0.1-100MHz):	1.1dB max
OCL @100KHz, 8mA:	350µH (over full temp. range)
Return Loss	
0.5-30MHz:	-18dB min
40MHz:	-15.5dB min
50MHz:	-13.6dB min
660-80MHz	-12dB min

Patented Construction

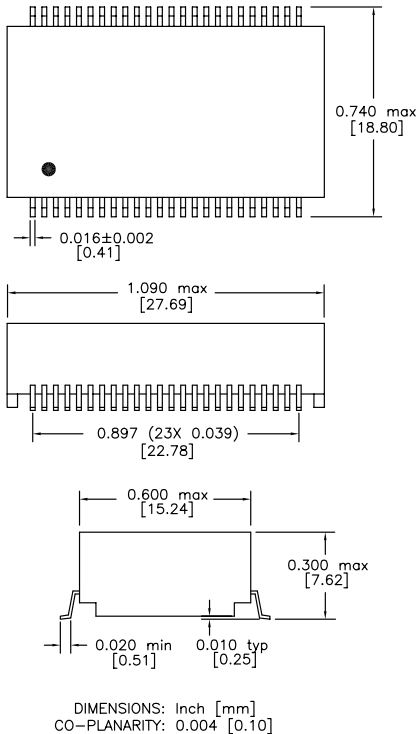
US Pat Nbrs:	5,656,985	6,297,721 B1
	6,297,720 B1	6,320,489 B1
	6,344,785 B1	6,662,431 B1

Part Number	Temp Range	PRI/SEC Cw/w (pF typ)	PRI DCR (Ω max)	CMR (.1-100MHz)	Crosstalk (1-100MHz)	Circuit Diagram
TG110-RP04NV6RL	0 to 70C	25	0.9	-38dB typ	-38dB typ	A
TG110-RP16NV6RL	0 to 70C	25	0.9	-40dB typ	-40dB typ	B
TG110-RPE17NV6RL	-40 to 85C	25	1.0	-38dB typ	-38dB typ	A

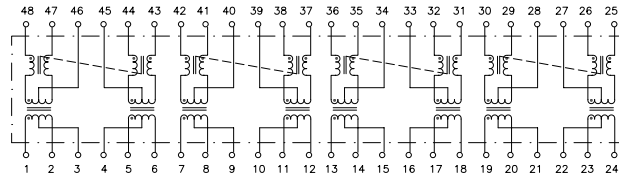
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NV Package

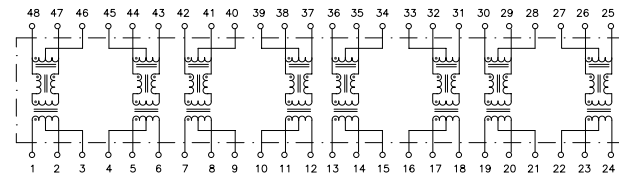


Circuit Diagram A



CHIP SIDE

Circuit Diagram B



CHIP SIDE

Electrical Specifications @ 25°C

Isolation Voltage:	1,500Vrms
Turns Ratio, TX & RX:	1CT:1CT
Insertion Loss (0.1-100MHz):	1.1dB max
OCL @100KHz, 8mA:	350µH (over full temp. range)
Return Loss	
0.5-30MHz:	-18dB min
40MHz:	-15.5dB min
50MHz:	-13.6dB min
660-80MHz:	-12dB min

Patented Construction

US Pat Nbrs:	5,656,985	6,297,721 B1
	6,297,720 B1	6,320,489 B1
	6,344,785 B1	6,662,431 B1

Part Number	Temp Range	PR1/SEC	PRI	CMR (.1-100MHz)	Crosstalk (1-100MHz)	Circuit Diagram
		Cw/w (pF typ)	DCR (Ω max)			
TG110-RP08NVRL	0 to 70C	25	0.9	-40dB typ	-40dB typ	B
TG110-RP13NVRL	0 to 70C	25	0.9	-38dB typ	-38dB typ	A
TG110-RPE14NVRL	-40 to 85C	25	1.0	-38dB typ	-38dB typ	A
TG110-RPE15NVRL	-40 to 85C	25	1.0	-40dB typ	-40dB typ	B