Extended Temperature Range, E-Ultra™ 10/100BASE-TX SOIC-16 Magnetic Modules
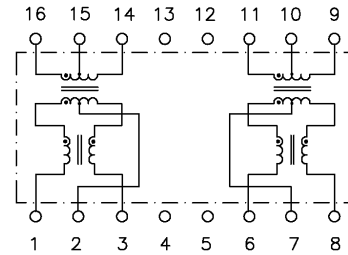
HALO ELECTRONICS, INC.

HALO Electronics is pleased to offer the E-Ultra™, the industry's first extended temperature range SOIC-16 Fast Ethernet magnetic module. The IEEE802.3 compliant Ultra™ series was originally developed by HALO as the first miniature 10/100 solution for real estate and cost sensitive applications. The E-Ultra™ now offers the same high performance over the industrial temp. range of –40 to +85C. Standard devices are available for all leading silicon vendors' Phy's.

N5 Package

0.500 max (12.70)
0.280 max (7.11)
HALO
0.375 max (9.53)
0.350 (8.890)
0.250 max (6.35)
0.050 typ (1.27)
0.018 typ (0.46)
0.015/0.025 (0.38/0.64)
0.006/0.015 (0.15/0.38)
0–6°
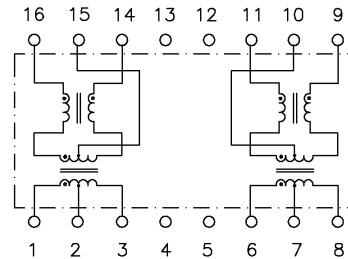DIMENSIONS : Inch(mm)
CO–PLANARITY : 0.004(0.10)
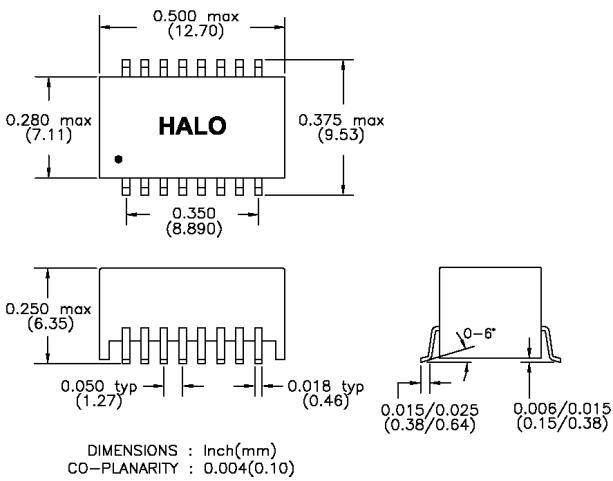
Patented Construction
Pat. No. 5,656,985

Circuit Schematic A

Circuit Schematic B

Electrical Specifications @ 25°C
Operating Temp: -40 to +85°C
Isolation Voltage: 1,500Vrms

CMR (0.1-100MHz):   -40dB typ
Crosstalk (0.1-100MHz):   -40dB min
OCL @100KHz, 8mA: 350µH min (over full temp. range)

Part Number	Turns Ratio +/- 3% (1-3:16-14)/(6-8:11-9)	Circuit Schematic	PRI/SEC Cw/w (pF typ)	PRI DCR (max)
TG110-E050N5	(1CT:1CT) / (1CT:1CT)	A	25	1.0
TG110-E055N5	(1CT:1CT) / (1CT:1CT)	B	25	1.0
TG110-E120N5	(2CT:1CT) / (1CT:1CT)	B	25	1.3
TG110-E125N5	(1CT:1CT) / (2CT:1CT)	B	25	1.3
TG110-E139N5	(1.25CT:1CT) / (1CT:1CT)	B	25	1.3