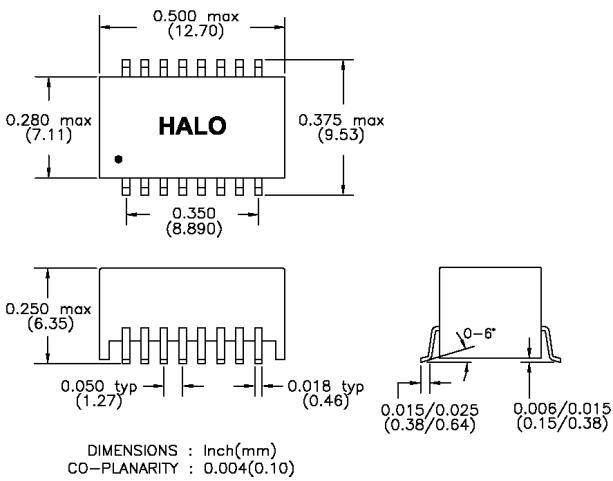


## Extended Temperature Range, E-Ultra™ 10/100BASE-TX SOIC-16 Magnetic Modules



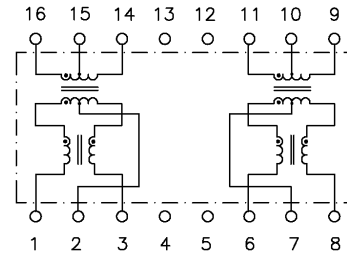
HALO Electronics is pleased to offer the E-Ultra™, the industry's first extended temperature range SOIC-16 Fast Ethernet magnetic module. The IEEE802.3 compliant Ultra™ series was originally developed by HALO as the first miniature 10/100 solution for real estate and cost sensitive applications. The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

### N5 Package

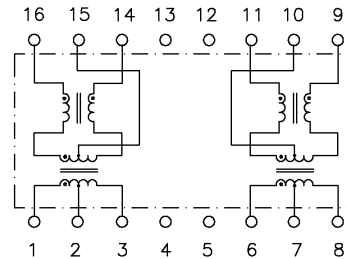


Patented Construction  
Pat. No. 5,656,985

### 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