

# 10BASE-T Isolation Modules

Single Port 4.5kV SMD Package

**HALO**  
ELECTRONICS, INC.



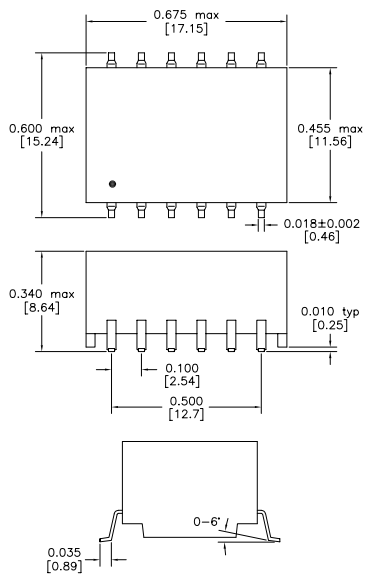
## Product Features:

- Standard series of reinforced insulation 10BASE-T isolation modules to meet the requirements of 802.3 for UTP applications requiring a high level of isolation, including telecommunications
- 4.5kV Isolation
- Patented Open Frame Construction
- UL60950, IEC60950 and EN60950 recognized

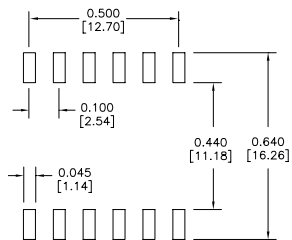
| Part Number   | Turns Ratio $\pm 3\%$<br>(1-3:12-10) / (4-6:9-7) | Pri OCL<br>( $\mu\text{H}$ ) | Cw/w<br>(pF max) | Pri DCR<br>( $\Omega$ max) | Schematic | Temp<br>Range |
|---------------|--------------------------------------------------|------------------------------|------------------|----------------------------|-----------|---------------|
| TG41-4006NCRL | (1CT:1CT) / (1CT:2.5CT)                          | 200/35 Min                   | 10               | 0.5                        | B         | -40 to +85°C  |
| TG42-4406NCRL | (1CT:1CT) / (1CT:1.41CT)                         | 140 Typ                      | 12               | 0.6                        | A         | 0 to +70°C    |
| TG43-4406NCRL | (1CT:1CT) / (1CT:1.41CT)                         | 140 Typ                      | 15               | 0.6                        | B         | 0 to +70°C    |
| TG74-4406NCRL | (1CT:1CT) / (1CT:2CT)                            | 140/25 Typ                   | 15               | 0.4                        | A         | 0 to +70°C    |
| TG75-4406NCRL | (1CT:1CT) / (1CT:2CT)                            | 140/25 Typ                   | 15               | 0.6                        | B         | 0 to +70°C    |
| TG92-4006NCRL | (1CT:1CT) / (1CT:2.5CT)                          | 200/35 Min                   | 15               | 0.5                        | A         | -40 to +85°C  |

# Reinforced 10BASE-T Isolation Modules

## Package NC

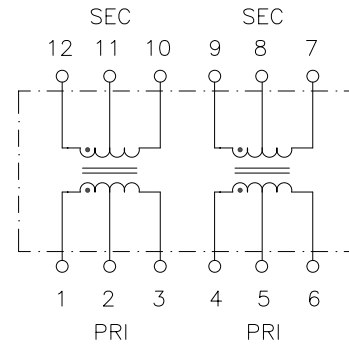


Dimensions are in inches [mm]  
Co-Planarity: 0.004 [0.10]

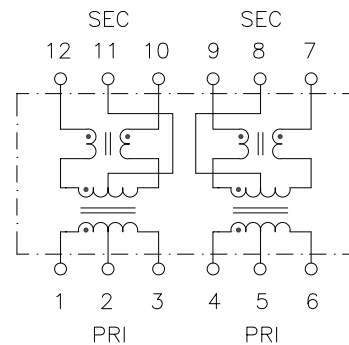


Recommended  
Solder Pad Layout

## Schematic A



## Schematic B



### US Patent Numbers

5,656,985 6,297,721 B1  
6,297,720 B1 6,320,489 B1  
6,344,785 B1 6,662,431 B1

**HALO**  
ELECTRONICS, INC.

2880 Lakeside Drive #116  
Santa Clara, CA 95054  
(650) 903-3800

[www.haloelectronics.com](http://www.haloelectronics.com)

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