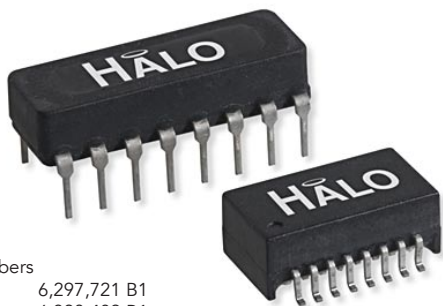


10BASE-T Isolation Modules

Dual Port SMD or DIL Package



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

Product Features:

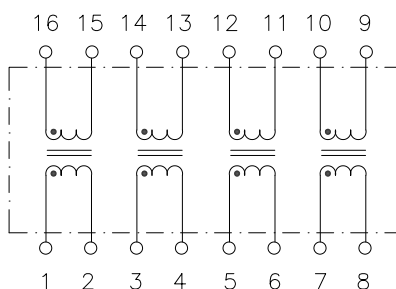
- Standard series of Dual Port Isolation Modules to meet the isolation requirements of IEEE 802.3
- Designed specifically for use with the “filterless” repeater / switch chips and “stacked” RJ45 connectors.
- Non-standard turns ratios are also available
- SMD parts include patented open frame construction
- 1500Vrms hi-pot

| Part Number | Pckg | Turns Ratio $\pm 3\%$ | | PRI OCL (μH) | PRI DCR (Ω max) | PRI LL (μH max) | Cw/w (pF max) | Temp Range |
|---------------|------|-----------------------------------|--|---------------------------|-------------------------|-----------------------------|-------------------------|--------------|
| | | PRI/SEC PRI 1-2, 3-4, 5-6, 7-8 | | | | | | |
| TD01-1006L1RL | DIL | 1:1, 1:1, 1:1, 1:1 | | 100 Typ. | 0.3 | 0.3 | 12 | 0 to +70°C |
| TG01-1006N2RL | SMD | 1:1, 1:1, 1:1, 1:1 | | 100 Typ. | 0.3 | 0.3 | 12 | 0 to +70°C |
| TD54-1006L1RL | DIL | 1:1.41, 1:1.41, 1:1.41, 1:1.41 | | 140 Typ. | 0.4 | 0.4 | 15 | 0 to +70°C |
| TG54-1006N2RL | SMD | 1:1.41, 1:1.41, 1:1.41, 1:1.41 | | 140 Typ. | 0.4 | 0.4 | 15 | 0 to +70°C |
| TD55-1406L1RL | DIL | 1:1, 1:1.41, 1:1.41, 1:1 | | 140/140 Typ. | 0.4/0.4 | 0.4 | 12 | 0 to +70°C |
| TG55-1406N2RL | SMD | 1:1, 1:1.41, 1:1.41, 1:1 | | 140/140 Typ. | 0.4/0.4 | 0.4 | 12 | 0 to +70°C |
| TD83-2006L1RL | DIL | 1:1, 1:2, 1:2, 1:1 | | 200/50 Min. | 0.5/0.35 | 0.15 | 11 | -40 to +85°C |
| TG83-2006N2RL | SMD | 1:1, 1:2, 1:2, 1:1 | | 200/50 Min. | 0.5/0.35 | 0.15 | 11 | -40 to +85°C |

Notes:

1. Please contact the factory or local representative for individual datasheets or additional information
2. Contact factory for “LF” lead free availability

Schematic

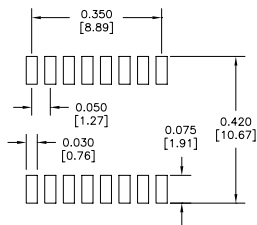


Reinforced 10BASE-T Isolation Modules

Package N2

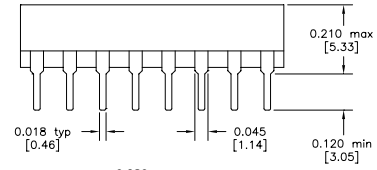
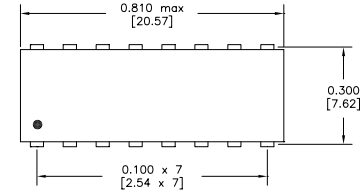


Dimensions: inches [mm]
Co-Planarity: 0.004 [0.10]



Recommended
Solder Pad Layout

Package L1



Dimensions: inches [mm]



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

HALO® Electronics is a leading supplier of high quality communication magnetics including signal transformers, filters, CMR chokes, PoE power transformers, DC/DC converters, and integrated Ethernet connectors. HALO's leading edge technology solutions are manufactured in ISO9001 and ISO14001 factories offering high quality products at a competitive price.