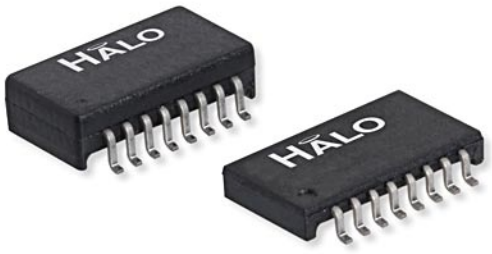
10BASE-T Isolation Modules

Low Profile Card Bus and PCMCIA Packages

HALO ELECTRONICS, INC.



Product Features:

- Standard series of 16 pin isolation modules to meet the isolation and impedance matching requirements of IEEE 802.3 for 10BASE-T
- 1500Vrms Isolation
- Choice of Card Bus or PCMCIA packages
- Patented Open Frame Construction
- Tested and approved by leading ethernet controller chip manufacturers

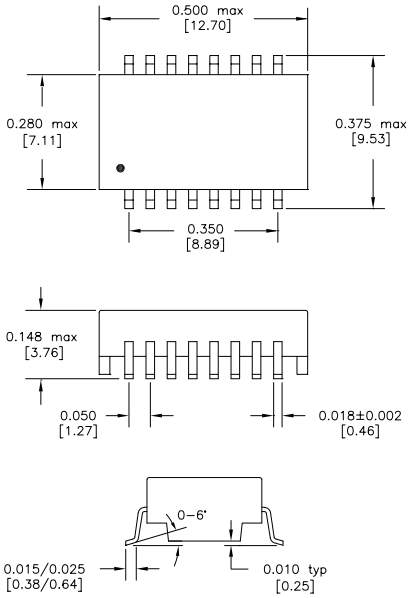
Card Bus Part Number	Turns Ratio ±3% (1-3:16-14) / (6-8:11-9)	PRI OCL (µH)	PRI/SEC Cw/w (pF max)	PRI DCR (Ω max)	Package/ Schematic	Temp Range
TG04-1006J1RL	(1CT:1CT) / (1CT:1CT)	100 Typ	9	0.50	J/A	0 to +70°C
TG04-2006J1RL	(1CT:1CT) / (1CT:1CT)	200 Typ	15	0.65	J/A	-40 to +85°C
TG41-2006JRL	(1CT:1CT) / 1CT:2.5CT)	200/35 Min	15	0.80	J/B	-40 to +85°C
TG42-1406J1RL	(1CT:1CT) / (1CT:√2CT)	140 Typ	15	0.65	J/A	0 to +70°C
TG43-1406JRL	(1CT:1CT) / (1CT:√2CT)	140 Typ	15	0.65	J/B	0 to +70°C
TG62-1006J1RL	(2CT:1CT) / (1CT:1CT)	150 Min	10	0.70	J/A	0 to +70°C
TG66-1006JRL	(2CT:1CT) / (1CT:1CT)	150 Min	10	0.70	J/B	0 to +70°C
TG74-1406J1RL	(1CT:1CT) / (1CT:2CT)	140/25 Typ	15	0.65	J/A	-40 to +85°C
TG75-1406JRL	(1CT:1CT) / (1CT:2CT)	140/25 Typ	15	0.65	J/B	-40 to +85°C
TG81-1006JRL	(1CT:1CT) / (1CT:1CT)	100 Typ	9	0.50	J/B	0 to +70°C
TG84-2006J1RL	(1CT:2CT) / (1CT:1CT)	50/200 Min	12	0.90	J/A	-40 to +85°C
TG86-2006JRL	(1CT:2CT) / (1CT:1CT)	50/200 Min	12	0.90	J/B	-40 to +85°C
TG92-2006J1RL	(1CT:1CT) /(1CT:2.5CT)	200/35 Min	15	0.80	J/A	-40 to +85°C

PCMCIA Part Number	Turns Ratio ±3% (1-3:16-14) / (6-8:11-9)	PRI OCL (µH)	PRI/SEC Cw/w (pF max)	PRI DCR (Ω max)	Package/ Schematic	Temp Range
TG04-1006P1RL	(1CT:1CT) / (1CT:1CT)	100 Typ	9	0.50	P/A	0 to +70°C
TG04-2006P1RL	(1CT:1CT) / (1CT:1CT)	200 Typ	15	0.65	P/A	-40 to +85°C
TG41-2006PRL	(1CT:1CT) / 1CT:2.5CT)	200/35 Min	15	0.80	P/B	-40 to +85°C
TG42-1406P1RL	(1CT:1CT) / (1CT:√2CT)	140 Typ	15	0.65	P/A	0 to +70°C
TG43-1406PRL	(1CT:1CT) / (1CT:√2CT)	140 Typ	15	0.65	P/B	0 to +70°C
TG62-1006P1RL	(2CT:1CT) / (1CT:1CT)	150 Min	10	0.70	P/A	0 to +70°C
TG66-1006PRL	(2CT:1CT) / (1CT:1CT)	150 Min	10	0.70	P/B	0 to +70°C
TG74-1406P1RL	(1CT:1CT) / (1CT:2CT)	140/25 Typ	15	0.65	P/A	-40 to +85°C
TG75-1406PRL	(1CT:1CT) / (1CT:2CT)	140/25 Typ	15	0.65	P/B	-40 to +85°C
TG81-1006PRL	(1CT:1CT) / (1CT:1CT)	100 Typ	9	0.50	P/B	0 to +70°C
TG84-2006P1RL	(1CT:2CT) / (1CT:1CT)	50/200 Min	12	0.90	P/A	-40 to +85°C
TG86-2006PRL	(1CT:2CT) / (1CT:1CT)	50/200 Min	12	0.90	P/B	-40 to +85°C

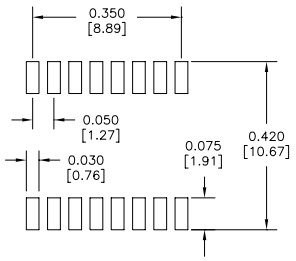
For additional information contact your local representative, or HALO's support staff at (650) 903-3800 or info@haloelectronics.com

Low Profile 10BASE-T Isolation Modules

Package J

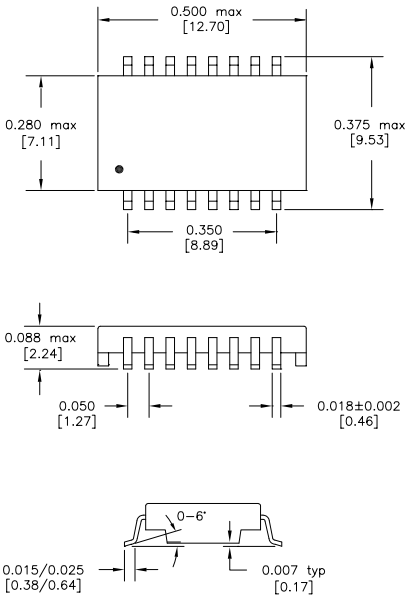


Dimensions are in inches [mm]
Co-Planarity: 0.004 [0.10]

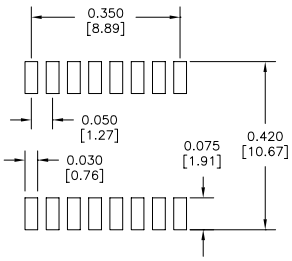


Recommended
Solder Pad Layout

Package P



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

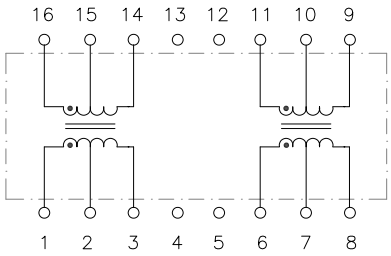


Recommended
Solder Pad Layout

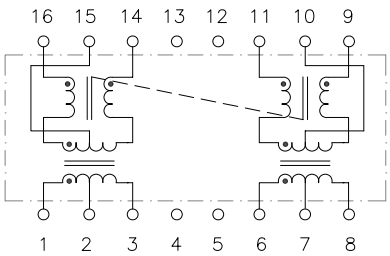
US Patent Numbers

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

Schematic A



Schematic B



HALO ELECTRONICS, INC.
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.

© Copyright 2014 HALO Electronics, Inc. All rights reserved.
Revised 02/2014 Download the latest version at www.haloelectronics.com/pdf/low-profile-10baset.pdf