

# 10BASE-T Isolation Modules

16 Pin SOIC Package 10BASE-T Transformers



## Product Features:

- Standard series of 16 Pin SOIC Isolation Modules to meet the isolation and impedance matching requirements of IEEE 802.3 for 10BASE-T
- 100% Compliance Testing
- 1500Vrms Hi-Pot
- Patented Open Frame Construction
- UL/EN60950 Recognized

Part Number	Turns Ratio $\pm 3\%$ (1-3:16-14) / (6-8:11-9)	PRI OCL ( $\mu\text{H}$ )	PRI/SEC Cw/w ( $\mu\text{F}$ max)	PRI LL ( $\mu\text{H}$ max)	Schematic	Temp Range	RoHS <sup>1</sup>
TG04-1006N1LF	(1CT:1CT) / (1CT:1CT)	100 Typ	9	0.4	A	0 to +70°C	Pb-Free
TG04-1006N1RL	(1CT:1CT) / (1CT:1CT)	100 Typ	9	0.4	A	0 to +70°C	RoHS (7a)
TG04-2006N1LF	(1CT:1CT) / (1CT:1CT)	200 Typ	15	0.3	A	-40 to +85°C	Pb-Free
TG04-2006N1RL	(1CT:1CT) / (1CT:1CT)	200 Typ	15	0.3	A	-40 to +85°C	RoHS (7a)
TG41-2006NLF	(1CT:1CT) / (1CT:2.5CT)	200/35 Min	15	0.4	B	-40 to +85°C	Pb-Free
TG41-2006NRL	(1CT:1CT) / (1CT:2.5CT)	200/35 Min	15	0.4	B	-40 to +85°C	RoHS (7a)
TG42-1406N1LF	(1CT:1CT) / (1CT:1.41CT)	140 Typ	15	0.4	A	0 to +70°C	Pb-Free
TG42-1406N1RL	(1CT:1CT) / (1CT:1.41CT)	140 Typ	15	0.4	A	0 to +70°C	RoHS (7a)
TG43-1406NLF	(1CT:1CT) / (1CT:1.41CT)	140 Typ	15	0.4	B	0 to +70°C <sup>2</sup>	Pb-Free
TG43-1406NRL	(1CT:1CT) / (1CT:1.41CT)	140 Typ	15	0.4	B	0 to +70°C <sup>2</sup>	RoHS (7a)
TG62-1006N1LF	(2CT:1CT) / (1CT:1CT)	150 Min	10	0.6	A	0 to +70°C	Pb-Free
TG62-1006N1RL	(2CT:1CT) / (1CT:1CT)	150 Min	10	0.6	A	0 to +70°C	RoHS (7a)
TG66-1006NLF	(2CT:1CT) / (1CT:1CT)	150 Min	10	0.9	B	0 to +70°C	Pb-Free
TG66-1006NRL	(2CT:1CT) / (1CT:1CT)	150 Min	10	0.9	B	0 to +70°C	RoHS (7a)
TG74-1406N1LF	(1CT:1CT) / (1CT:2CT)	140/25 Typ	15	0.4	A	-40 to +85°C	Pb-Free
TG74-1406N1RL	(1CT:1CT) / (1CT:2CT)	140/25 Typ	15	0.4	A	-40 to +85°C	RoHS (7a)
TG75-1406NLF	(1CT:1CT) / (1CT:2CT)	140/25 Typ	15	0.4	B	-40 to +85°C	Pb-Free
TG75-1406NRL	(1CT:1CT) / (1CT:2CT)	140/25 Typ	15	0.4	B	-40 to +85°C	RoHS (7a)
TG81-1006NLF	(1CT:1CT) / (1CT:1CT)	100 Typ	9	0.3	B	0 to +70°C	Pb-Free
TG81-1006NRL	(1CT:1CT) / (1CT:1CT)	100 Typ	9	0.3	B	0 to +70°C	RoHS (7a)
TG84-2006N1LF	(1CT:2CT) / (1CT:1CT)	50/200 Min	11	0.15	A	-40 to +85°C	Pb-Free
TG84-2006N1RL	(1CT:2CT) / (1CT:1CT)	50/200 Min	11	0.15	A	-40 to +85°C	RoHS (7a)
TG86-2006NLF	(1CT:2CT) / (1CT:1CT)	50/200 Min	11	0.3	B	-40 to +85°C	Pb-Free
TG86-2006NRL	(1CT:2CT) / (1CT:1CT)	50/200 Min	11	0.3	B	-40 to +85°C	RoHS (7a)
TG92-2006N1LF	(1CT:1CT) / (1CT:2.5CT)	200/35 Min	15	0.4	A	-40 to +85°C	Pb-Free
TG92-2006N1RL	(1CT:1CT) / (1CT:2.5CT)	200/35 Min	15	0.4	A	-40 to +85°C	RoHS (7a)

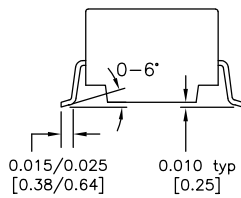
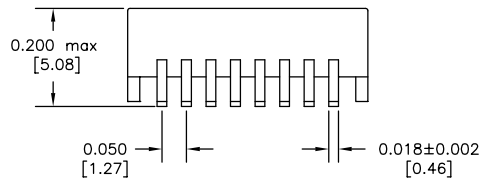
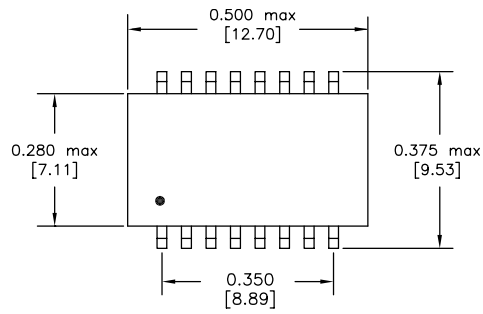
### Notes:

1. Pb-Free parts are RoHS 6/6 compliant. RoHS (7a) parts contain lead per exemption 7a which is set to expire in July 2016.
2. TG43-1406NRL can be operated in -40 to +85°C environment when using the Cirrus Logic CS8900A-IQ (5V) Transceiver.
3. Parts with RL suffix are not recommended for new designs.
4. Please contact the factory or your local representative for individual datasheets or additional information.

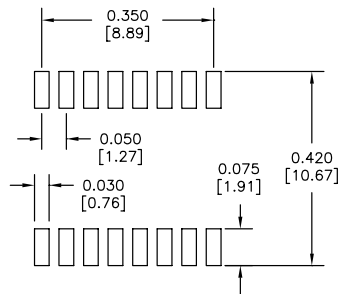
For additional information contact your [local representative](#), or HALO's support staff at (650) 903-3800 or [info@haloelectronics.com](mailto:info@haloelectronics.com)

# 10BASE-T Isolation Modules

## Package N/N1

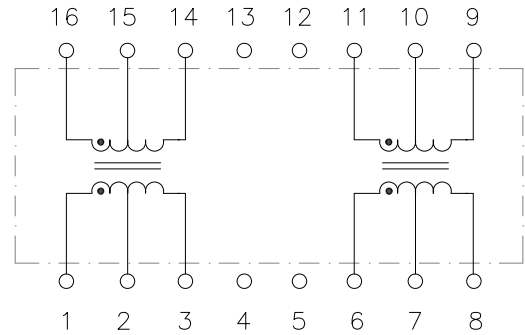


Dimensions: inch [mm]  
Co-Planarity: 0.004 [0.10]

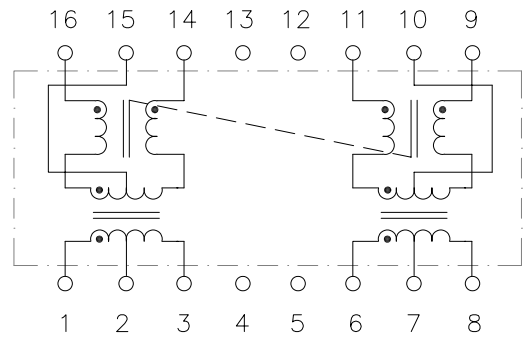


Recommended  
Solder Pad Layout

## 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

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