

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 (μH) | PRI/SEC Cw/w (μF max) | PRI LL (μH max) | Schematic | Temp Range | RoHS ¹ |
|---------------|---------------------------------------------------|---------------------------------|-----------------------------------------|-----------------------------------|-----------|-------------------------|-------------------|
| 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 ² | Pb-Free |
| TG43-1406NRL | (1CT:1CT) / (1CT:1.41CT) | 140 Typ | 15 | 0.4 | B | 0 to +70°C ² | 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) |

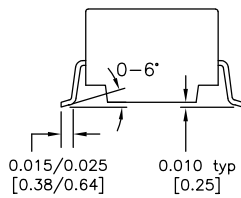
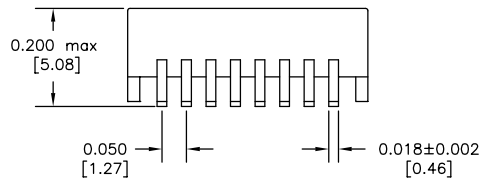
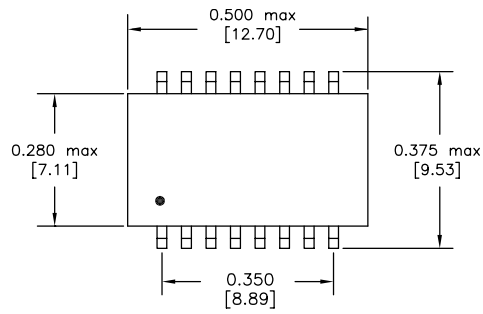
Notes:

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.

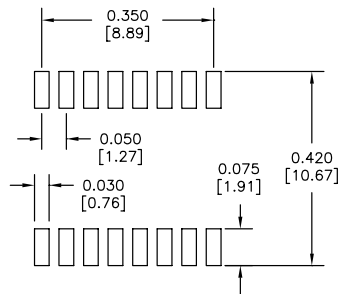
For additional information contact your [local representative](#), or HALO's support staff at (650) 903-3800 or info@haloelectronics.com

10BASE-T Isolation Modules

Package N/N1

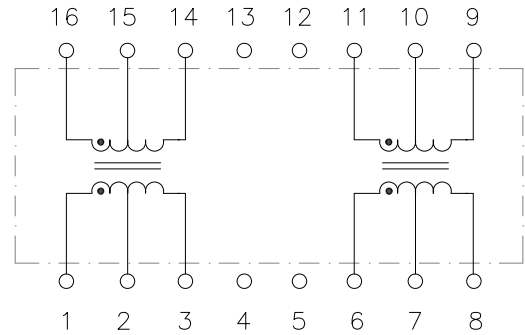


Dimensions: inch [mm]
Co-Planarity: 0.004 [0.10]

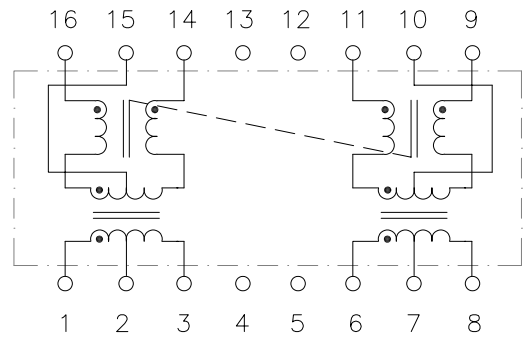


Recommended
Solder Pad Layout

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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