10BASE-T Isolation Modules

TI FOT PONICE INC

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 ±3% (1-3:16-14) / (6-8:11-9) | PRI OCL (µH) | PRI/SEC Cw/w (pF max) | PRI LL (µH max) | Schematic | Temp Range | RoHS ¹ |
|---------------|---|--------------------|-----------------------------|-----------------------|-----------|-------------------------|-------------------|
| TG04-1006N1LF | (1CT:1CT) / (1CT:1CT) | 100 Typ | 9 | 0.4 | Α | 0 to +70°C | Pb-Free |
| TG04-1006N1RL | (1CT:1CT) / (1CT:1CT) | 100 Typ | 9 | 0.4 | А | 0 to +70°C | RoHS (7a) |
| TG04-2006N1LF | (1CT:1CT) / (1CT:1CT) | 200 Typ | 15 | 0.3 | А | -40 to +85°C | Pb-Free |
| TG04-2006N1RL | (1CT:1CT) / (1CT:1CT) | 200 Typ | 15 | 0.3 | А | -40 to +85°C | RoHS (7a) |
| TG41-2006NLF | (1CT:1CT) / (1CT:2.5CT) | 200/35 Min | 15 | 0.4 | В | -40 to +85°C | Pb-Free |
| TG41-2006NRL | (1CT:1CT) / (1CT:2.5CT) | 200/35 Min | 15 | 0.4 | В | -40 to +85°C | RoHS (7a) |
| TG42-1406N1LF | (1CT:1CT) / (1CT:1.41CT) | 140 Typ | 15 | 0.4 | А | 0 to +70°C | Pb-Free |
| TG42-1406N1RL | (1CT:1CT) / (1CT:1.41CT) | 140 Typ | 15 | 0.4 | Α | 0 to +70°C | RoHS (7a) |
| TG43-1406NLF | (1CT:1CT) / (1CT:1.41CT) | 140 Typ | 15 | 0.4 | В | 0 to +70°C2 | Pb-Free |
| TG43-1406NRL | (1CT:1CT) / (1CT:1.41CT) | 140 Typ | 15 | 0.4 | В | 0 to +70°C ² | RoHS (7a) |
| TG62-1006N1LF | (2CT:1CT) / (1CT:1CT) | 150 Min | 10 | 0.6 | Α | 0 to +70°C | Pb-Free |
| TG62-1006N1RL | (2CT:1CT) / (1CT:1CT) | 150 Min | 10 | 0.6 | А | 0 to +70°C | RoHS (7a) |
| TG66-1006NLF | (2CT:1CT) / (1CT:1CT) | 150 Min | 10 | 0.9 | В | 0 to +70°C | Pb-Free |
| TG66-1006NRL | (2CT:1CT) / (1CT:1CT) | 150 Min | 10 | 0.9 | В | 0 to +70°C | RoHS (7a) |
| TG74-1406N1LF | (1CT:1CT) / (1CT:2CT) | 140/25 Typ | 15 | 0.4 | А | -40 to +85°C | Pb-Free |
| TG74-1406N1RL | (1CT:1CT) / (1CT:2CT) | 140/25 Typ | 15 | 0.4 | Α | -40 to +85°C | RoHS (7a) |
| TG75-1406NLF | (1CT:1CT) / (1CT:2CT) | 140/25 Typ | 15 | 0.4 | В | -40 to +85°C | Pb-Free |
| TG75-1406NRL | (1CT:1CT) / (1CT:2CT) | 140/25 Typ | 15 | 0.4 | В | -40 to +85°C | RoHS (7a) |
| TG81-1006NLF | (1CT:1CT) / (1CT:1CT) | 100 Typ | 9 | 0.3 | В | 0 to +70°C | Pb-Free |
| TG81-1006NRL | (1CT:1CT) / (1CT:1CT) | 100 Typ | 9 | 0.3 | В | 0 to +70°C | RoHS (7a) |
| TG84-2006N1LF | (1CT:2CT) / (1CT:1CT) | 50/200 Min | 11 | 0.15 | Α | -40 to +85°C | Pb-Free |
| TG84-2006N1RL | (1CT:2CT) / (1CT:1CT) | 50/200 Min | 11 | 0.15 | Α | -40 to +85°C | RoHS (7a) |
| TG86-2006NLF | (1CT:2CT) / (1CT:1CT) | 50/200 Min | 11 | 0.3 | В | -40 to +85°C | Pb-Free |
| TG86-2006NRL | (1CT:2CT) / (1CT:1CT) | 50/200 Min | 11 | 0.3 | В | -40 to +85°C | RoHS (7a) |
| TG92-2006N1LF | (1CT:1CT) / (1CT:2.5CT) | 200/35 Min | 15 | 0.4 | А | -40 to +85°C | Pb-Free |
| TG92-2006N1RL | (1CT:1CT) / (1CT:2.5CT) | 200/35 Min | 15 | 0.4 | А | -40 to +85°C | RoHS (7a) |

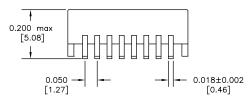
Notes:

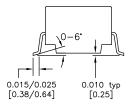
- 1. Pb-Free parts are RoHS 6/6 compliant. RoHS (7a) parts contain lead per exemption 7a which is set to expire in July 2016.
- 2. TG43-1406NRL can be operated in –40 to +85°C environment when using the Cirrus Logic CS8900A-IQ (5V) Transceiver.
- 3. Parts with RL suffix are not recommended for new designs.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

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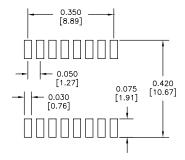
Package N/N1

0.500 max [12.70] HHHHHHHHHH 0.350 [8.89]



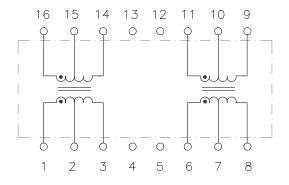


Dimensions: inch [mm] Co-Planarity: 0.004 [0.10]

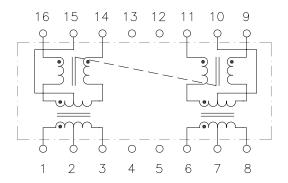


Recommended Solder Pad Layout

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



HALO® Electronics is a leading supplier of high quality communication magnetics including signal transformers, filters, CMR chokes, PoE power transformers, DC/DC isolation modules, and integrated Ethernet connectors. HALO's high quality and competitively priced leading edge technology solutions are manufactured in ISO9001 and ISO14001 factories.