ULTRA[™]Family of Transformers

SMD Single Port 10/100BASE-TX Transformer





Product Features:

- ULTRA[™], E-ULTRA[™], and ULTRA-II[™]
- IEEE802.3u Compliant
- UL/EN60950 Recognized
- 100% Electrical Testing
- 1500Vrms Hi-Pot
- Patented Open Frame Construction

5,656,985 6,297,721 B1 6,297,720 B1 6,320,489 B1 6,344,785 B1 6,662.431 B1

| ULTRA™ Part Number | Circuit | Package | Temp. Range | Turns Ra (1-3:16-14) | atio ±3% (6-8:11-9) | Cw/w (pF) | PRI LL (µH max) | PRI DCR (Ω max) | RoHS ¹ |
|-----------------------|---------|---------|----------------|-------------------------|------------------------|--------------|--------------------|--------------------|-------------------|
| TG110-S050N2LF | А | N2 | 0 to 70°C | 1CT:1CT | 1CT:1CT | 35 max | 0.4 | 0.9 | Pb-Free |
| TG110-S050N2RL | Α | N2 | 0 to 70°C | 1CT:1CT | 1CT:1CT | 35 max | 0.4 | 0.9 | RoHS (7a) |
| TG110-S055N2LF | В | N2 | 0 to 70°C | 1CT:1CT | 1CT:1CT | 35 max | 0.4 | 0.9 | Pb-Free |
| TG110-S055N2RL | В | N2 | 0 to 70°C | 1CT:1CT | 1CT:1CT | 35 max | 0.4 | 0.9 | RoHS (7a) |
| TG110-S120N2LF | В | N2 | 0 to 70°C | 2CT:1CT | 1CT:1CT | 30 max | 0.9 | 0.9 | Pb-Free |
| TG110-S120N2RL | В | N2 | 0 to 70°C | 2CT:1CT | 1CT:1CT | 30 max | 0.9 | 0.9 | RoHS (7a) |
| TG110-S125N2LF | В | N2 | 0 to 70°C | 1CT:1CT | 2CT:1CT | 30 max | 0.4 | 0.9 | Pb-Free |
| TG110-S125N2RL | В | N2 | 0 to 70°C | 1CT:1CT | 2CT:1CT | 35 max | 0.4 | 0.9 | RoHS (7a) |
| TG110-S131N2LF | В | N2 | 0 to 70°C | 1.41CT:1CT | 1CT:1CT | 35 max | 0.4 | 1.5 | Pb-Free |
| TG110-S131N2RL | В | N2 | 0 to 70°C | 1.41CT:1CT | 1CT:1CT | 35 max | 0.4 | 1.5 | RoHS (7a) |
| TG110-S139N2LF | В | N2 | 0 to 70°C | 1.25CT:1CT | 1CT:1CT | 15 typ | 0.9 | 0.9 | Pb-Free |
| TG110-S139N2RL | В | N2 | 0 to 70°C | 1.25CT:1CT | 1CT:1CT | 15 typ | 0.9 | 0.9 | RoHS (7a) |
| TG110-S141N5LF | В | N5 | 0 to 70°C | 1CT:1.41CT | 1CT:1CT | 35 typ | 0.4 | 0.9 | Pb-Free |
| TG110-S141N5RL | В | N5 | 0 to 70°C | 1CT:1.41CT | 1CT:1CT | 35 typ | 0.4 | 0.9 | RoHS (7a) |
| TG110-S177N2LF | В | N2 | 0 to 70°C | 1.41CT:1CT | 1.41CT:1CT | 30 max | 0.6 | 0.9 | Pb-Free |
| TG110-S177N2RL | В | N2 | 0 to 70°C | 1.41CT:1CT | 1.41CT:1CT | 30 max | 0.6 | 0.9 | RoHS (7a) |

| ULTRA-II™ | | | | | | | | | |
|-----------------------------|---|----|-----------|---------|---------|--------|-----|-----|-----------|
| TG110-3506N6LF ² | С | N6 | 0 to 70°C | 1CT:1CT | 1CT:1CT | 20 typ | 0.4 | 1.3 | Pb-Free |
| TG110-3506N6RL ² | С | N6 | 0 to 70°C | 1CT:1CT | 1CT:1CT | 20 typ | 0.4 | 1.3 | RoHS (7a) |
| TG110-S101N6LF ² | D | N6 | 0 to 70°C | 1CT:1CT | 1CT:1CT | 20 typ | 0.4 | 1.3 | Pb-Free |
| TG110-S101N6RL ² | D | N6 | 0 to 70°C | 1CT:1CT | 1CT:1CT | 20 typ | 0.4 | 1.3 | 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. Not for use in Auto-MDIX circuits/auto-transformer must be on the TX channel.

3. Parts with RL suffix are not recommended for new designs.

4. Contact the factory or your local representative for individual datasheet or additional information.

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

ULTRA[™]Family of Transformers



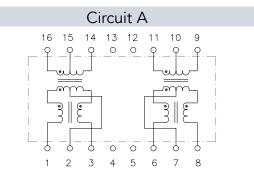
| E-ULTRA™ Part Number | Circuit | Package | Temp. Range | Turns Ra (1-3:16-14) | tio ±3% (6-8:11-9) | Cw/w (pF) | PRI/SEC LL (µH max) | PRI DCR (Ω max) | RoHS ¹ |
|-------------------------|---------|---------|----------------|-------------------------|-----------------------|--------------|---------------------------|--------------------|-------------------|
| TG110-E050N5LF | А | N5 | -40 to +85°C | 1CT:1CT | 1CT:1CT | 35 max | 0.4 | 1.0 | Pb-Free |
| TG110-E050N5RL | А | N5 | -40 to +85°C | 1CT:1CT | 1CT:1CT | 40 max | 0.4 | 1.0 | RoHS (7a) |
| TG110-E055N5LF | В | N5 | -40 to +85°C | 1CT:1CT | 1CT:1CT | 35 max | 0.4 | 1.0 | Pb-Free |
| TG110-E055N5RL | В | N5 | -40 to +85°C | 1CT:1CT | 1CT:1CT | 40 max | 0.4 | 1.0 | RoHS (7a) |
| TG110-E120N5LF | В | N5 | -40 to +85°C | 2CT:1CT | 1CT:1CT | 40 max | 0.9 | 1.3 | Pb-Free |
| TG110-E120N5RL | В | N5 | -40 to +85°C | 2CT:1CT | 1CT:1CT | 40 max | 0.9 | 1.3 | RoHS (7a) |
| TG110-E125N5LF | В | N5 | -40 to +85°C | 1CT:1CT | 2CT:1CT | 40 max | 0.9 | 1.1 | Pb-Free |
| TG110-E125N5RL | В | N5 | -40 to +85°C | 1CT:1CT | 2CT:1CT | 40 max | 0.9 | 1.1 | RoHS (7a) |
| TG110-E139N5LF | В | N5 | -40 to +85°C | 1.25CT:1CT | 1CT:1CT | 30 typ | 0.4 | 1.3 | Pb-Free |
| TG110-E139N5RL | В | N5 | -40 to +85°C | 1.25CT:1CT | 1CT:1CT | 30 typ | 0.4 | 1.3 | RoHS (7a) |

Notes:

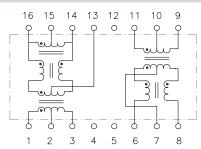
1. Pb-Free parts are RoHS 6/6 compliant. RoHS (7a) parts contain lead per exemption 7a which is set to expire in July 2016.

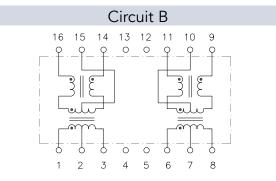
2. Parts with RL suffix are not recommended for new designs.

3. Contact the factory or your local representative for individual datasheet or additional information.

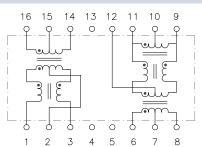


Circuit C



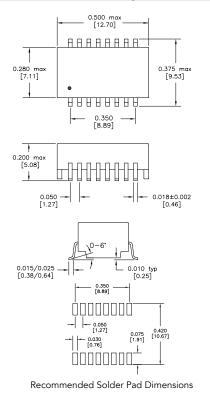


Circuit D

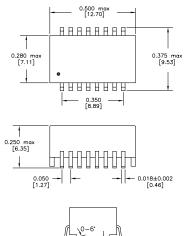


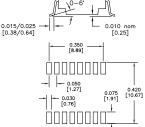
HALO ULTRA 10/100BASE-TX Ethernet Transformers

N2 Package



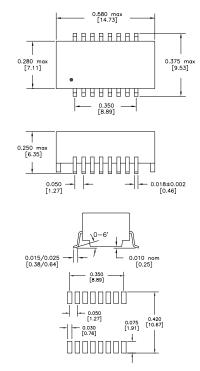
N5 Package





Recommended Solder Pad Dimensions

Dimensions: inch [mm] Co-Planarity: 0.004 [0.10] N6 Package



Recommended Solder Pad Dimensions



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.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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