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



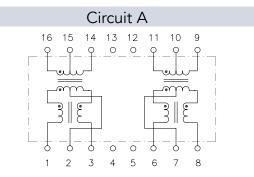
E-ULTRA™ Part Number	Circuit	Package	Temp. Range	Turns Ra (1-3:16-14)	tio ±3% (6-8:11-9)	Cw/w (pF)	PRI/SEC LL (µH max)	PRI DCR (Ω max)	RoHS ¹
TG110-E050N5LF	А	N5	-40 to +85°C	1CT:1CT	1CT:1CT	35 max	0.4	1.0	Pb-Free
TG110-E050N5RL	А	N5	-40 to +85°C	1CT:1CT	1CT:1CT	40 max	0.4	1.0	RoHS (7a)
TG110-E055N5LF	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:

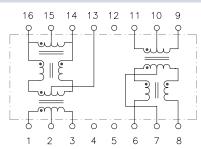
1. Pb-Free parts are RoHS 6/6 compliant. RoHS (7a) parts contain lead per exemption 7a which is set to expire in July 2016.

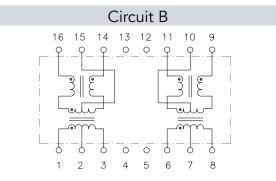
2. Parts with RL suffix are not recommended for new designs.

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

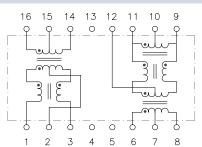


Circuit C



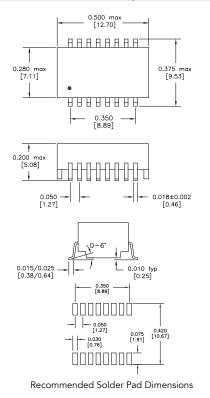


Circuit D

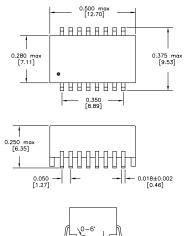


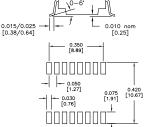
HALO ULTRA 10/100BASE-TX Ethernet Transformers

N2 Package



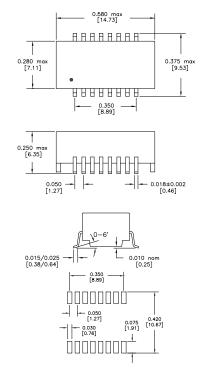
N5 Package





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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 PA1277NLT

 PA1528ANL
 PA2007NLT
 FL1066
 T1137NLT
 T3012NL
 PE-65812FNL
 TTC-100
 TTC-143-H
 TTC-5032-1
 HX1234NLT
 HX5008FNLT

 100B-1001XNL
 PA1282NLT
 HX5084FNL
 T1108NLT
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 TTC-266-2
 3-1879385-4
 PA1032NL
 H2009FNLT
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 X-1619
 SM51295PEL
 T5008NLT
 PE-68517T
 HX1294NLT
 HX5084FNLT
 H5015FNLT
 H6080NLT
 CX2024NL
 HX1294FNLT

 TX1473NLT
 PE-69011NLT
 CX2047LNLT
 CX2043LNLT
 DCT20EFD-U32S003
 H5120NLT
 H7137FNLT
 H1259NLT