

Duet™ & Duet+™ Transformers

SMD Dual Port T1/E1 Modules



DUET+™								
Part Number	Circuit	Turns Ratio ±2%		Primary Pins		Cw/w (pF)	PRI LL (μH max)	RoHS ¹
		TX	RX	TX	RX			
TG36-1505NZLF	B	1CT:1.15CT	1CT:1.15CT	4-6 & 10-12	1-3 & 7-9	35	0.5	Pb-Free
TG36-1505NZRL	B	1CT:1.15CT	1CT:1.15CT	4-6 & 10-12	1-3 & 7-9	35	0.5	RoHS (7a)
TG43-1505NZLF	C	1CT:1.41CT	1CT:1.41CT	1-3 & 10-12	21-19 & 18-16	35	0.5	Pb-Free
TG43-1505NZRL	C	1CT:1.41CT	1CT:1.41CT	1-3 & 10-12	21-19 & 18-16	35	0.5	RoHS (7a)
TG48-1505NZLF	B	1CT:2CT	1CT:2CT	4-6 & 10-12	1-3 & 7-9	35	0.5	Pb-Free
TG48-1505NZRL	B	1CT:2CT	1CT:2CT	4-6 & 10-12	1-3 & 7-9	35	0.5	RoHS (7a)
TG75-1505NZLF	B	1CT:2CT	1CT:1CT	4-6 & 10-12	24-22 & 18-16	35	0.5	Pb-Free
TG75-1505NZRL	B	1CT:2CT	1CT:1CT	4-6 & 10-12	24-22 & 18-16	35	0.5	RoHS (7a)
TG85-1505NZLF	C	1CT:2CT	1CT:2CT	1-3 & 10-12	4-6 & 7-9	35	0.5	Pb-Free
TG85-1505NZRL	C	1CT:2CT	1CT:2CT	1-3 & 10-12	4-6 & 7-9	35	0.5	RoHS (7a)
TG85-S002NZLF	C	1CT:2CT	1CT:2CT	1-3 & 10-12	21-19 & 18-16	35	0.5	Pb-Free
TG85-S002NZRL	C	1CT:2CT	1CT:2CT	1-3 & 10-12	21-19 & 18-16	35	0.5	RoHS (7a)
TG93-1505NZLF	B	1CT:2.42CT	1CT:2.42CT	4-6 & 10-12	1-3 & 7-9	35	0.5	Pb-Free
TG93-1505NZRL	B	1CT:2.42CT	1CT:2.42CT	4-6 & 10-12	1-3 & 7-9	35	0.5	RoHS (7a)
TG97-1505NZLF	B	1CT:1.36CT	1CT:2CT	4-6 & 10-12	24-22 & 18-16	35	0.5	Pb-Free
TG97-1505NZRL	B	1CT:1.36CT	1CT:2CT	4-6 & 10-12	24-22 & 18-16	35	0.5	RoHS (7a)
TG98-1505NZLF	B	1CT:1.36CT	1CT:1CT	4-6 & 10-12	24-22 & 18-16	35	0.5	Pb-Free
TG98-1505NZRL	B	1CT:1.36CT	1CT:1CT	4-6 & 10-12	24-22 & 18-16	35	0.5	RoHS (7a)
TGSP-S225NZLF	C	1CT:2.4CT	1CT:1CT	1-3 & 10-12	21-19 & 18-16	35	0.5	Pb-Free
TGSP-S225NZRL	C	1CT:2.4CT	1CT:1CT	1-3 & 10-12	21-19 & 18-16	35	0.5	RoHS (7a)
TGSP-S281NZLF	B	1CT:1.15CT	1CT:2CT	4-6 & 10-12	1-3 & 7-9	35	0.5	Pb-Free
TGSP-S281NZRL	B	1CT:1.15CT	1CT:2CT	4-6 & 10-12	1-3 & 7-9	35	0.5	RoHS (7a)

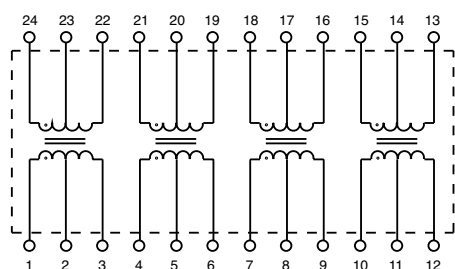
Notes:

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.

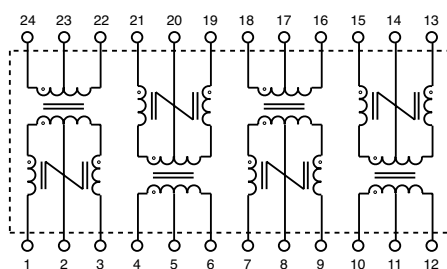
For additional information contact your [local representative](#), or HALO's support staff at (650) 903-3800 or info@haloelectronics.com

HALO DUET™ and DUET™ Telecom Transformers

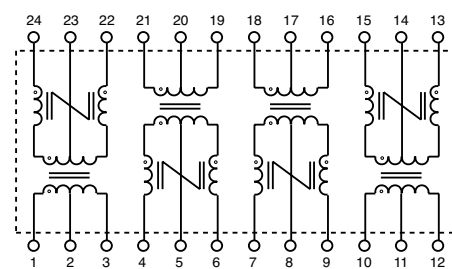
Circuit A



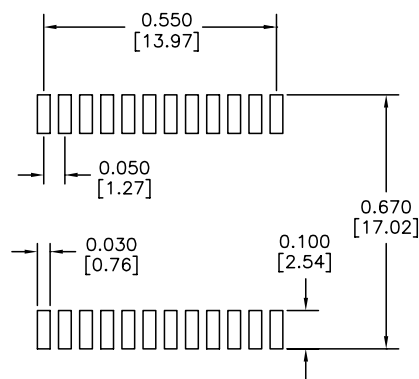
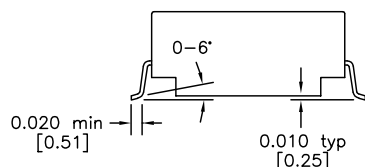
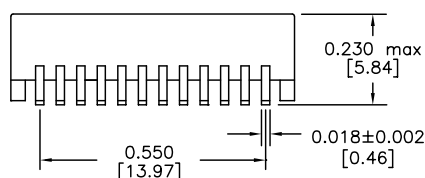
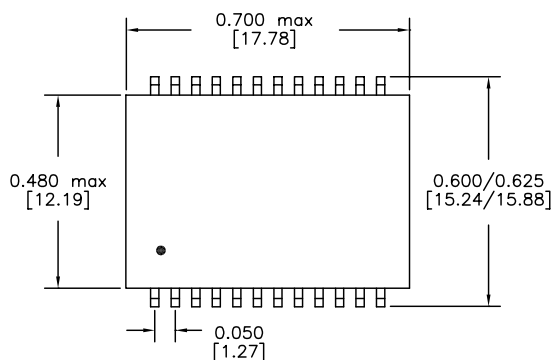
Circuit B



Circuit C



NZ Package



Recommended Solder Pad Dimensions

Co-Planarity: 0.004 [0.10]

Dimensions: inch [mm]

HALO
ELECTRONICS, INC.

2880 Lakeside Drive #116
Santa Clara, CA 95054
(650) 903-3800

www.haloelectronics.com

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.

© Copyright 2016 HALO Electronics, Inc. All rights reserved.

Revised 8/2015REVA. Download the latest version at www.haloelectronics.com/pdf/discrete-smdduet-t1e1.pdf