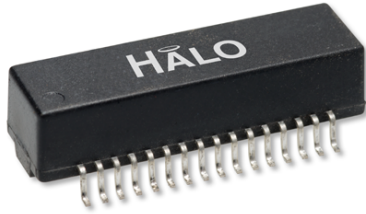


# T1/E1 Mini-Octal™ Isolation Module



SMD 8-Channel Quad Port T1/E1 Transformer



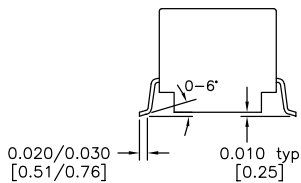
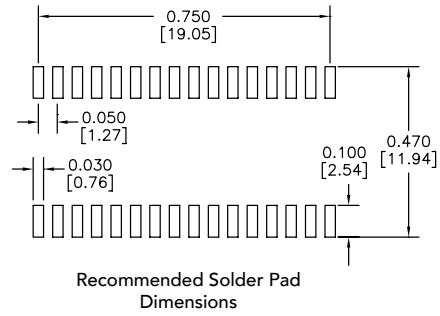
## Product Features:

- T1/E1/CEPT/ISDN-PRI 8-Channel Transformers
- UL/EN60950/DEMKO Recognized
- Extended Temp Range -40 to +85°C
- 100% Electrical Testing
- 1500Vrms Hi-Pot
- Patented Open Frame Construction

Part Number	Turns Ratio ( $\pm 2\%$ )	OCL (mH Typ)	Cw/w (pF Max)	Primary Pins	RoHS
	PRI : SEC				
TG01-1505NULF	1:1	1.5	35	1-2, 3-4, 5-6, 7-8, 9-10, 11-12, 13-14, 15-16	Pb-Free
TG01-1505NURL	1:1	1.5	35	1-2, 3-4, 5-6, 7-8, 9-10, 11-12, 13-14, 15-16	RoHS (7a)
TG05-1505NULF	1:2	1.5	35	1-2, 3-4, 5-6, 7-8, 9-10, 11-12, 13-14, 15-16	Pb-Free
TG05-1505NURL	1:2	1.5	35	1-2, 3-4, 5-6, 7-8, 9-10, 11-12, 13-14, 15-16	RoHS (7a)
TG05-S001NULF	1:2	1.5	35	32-31, 28-27, 24-23, 20-19, 3-4, 7-8, 11-12, 15-16	Pb-Free
TG05-S001NURL	1:2	1.5	35	32-31, 28-27, 24-23, 20-19, 3-4, 7-8, 11-12, 15-16	RoHS (7a)
TG37-1505NULF	1:1.14	1.5	35	1-2, 3-4, 5-6, 7-8, 9-10, 11-12, 13-14, 15-16	Pb-Free
TG37-1505NURL	1:1.14	1.5	35	1-2, 3-4, 5-6, 7-8, 9-10, 11-12, 13-14, 15-16	RoHS (7a)
TG37-S001NULF	1:1.14	1.5	35	1-2, 30-29, 5-6, 26-25, 9-10, 22-21, 13-14, 18-17	Pb-Free
TG37-S001NURL	1:1.14	1.5	35	1-2, 30-29, 5-6, 26-25, 9-10, 22-21, 13-14, 18-17	RoHS (7a)
TG39-1505NULF	1:1.15	1.5	35	1-2, 3-4, 5-6, 7-8, 9-10, 11-12, 13-14, 15-16	Pb-Free
TG39-1505NURL	1:1.15	1.5	35	1-2, 3-4, 5-6, 7-8, 9-10, 11-12, 13-14, 15-16	RoHS (7a)
TG83-1505NULF	1:1 & 1:2	1.5	35	1-2, 5-6, 9-10, 13-14 & 3-4, 7-8, 11-12, 15-16	Pb-Free
TG83-1505NURL	1:1 & 1:2	1.5	35	1-2, 5-6, 9-10, 13-14 & 3-4, 7-8, 11-12, 15-16	RoHS (7a)
TG91-1505NULF	1:2.4 & 1:1	1.5	35	1-2, 7-8, 9-10, 15-16 & 3-4, 5-6, 11-12, 13-14	Pb-Free
TG91-1505NURL	1:2.4 & 1:1	1.5	35	1-2, 7-8, 9-10, 15-16 & 3-4, 5-6, 11-12, 13-14	RoHS (7a)

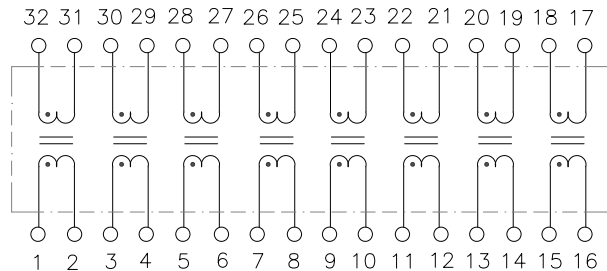
### Notes:

1. Pb-Free parts are RoHS 6/6 compliant. RoHS (7a) parts contain lead per exemption 7a which is set to expire July 2016.
2. Parts with RL suffix are not recommended for new designs.
3. Please contact the factory or representative for individual datasheets or additional information.



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

## Circuit Diagram



### Patented Construction

#### 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, INC.

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

[www.haloelectronics.com](http://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.