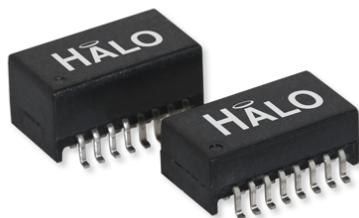


# T1/E1 Transformer

SMD Dual Channel T1/E1 Transformer

**HALO**  
ELECTRONICS, INC.



## Product Features:

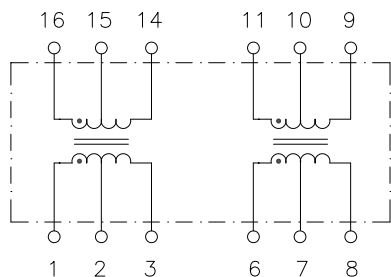
- T1/E1/CEPT/ISDN-PR
- UL/EN60950 Recognized
- DEMKO Recognized
- 100% Electrical Testing
- 1500Vrms Hi-Pot
- Patented Open Frame Construction

| Part Number   | Circuit | Temp. Range  | Turns Ratio ( $\pm 2\%$ )<br>PRI : SEC |            | Package Height (max) | PRI OCL (typ) | Primary Pins |
|---------------|---------|--------------|----------------------------------------|------------|----------------------|---------------|--------------|
| TG08-1205N1LF | A       | 0 to 70°C    | 1CT:2CT                                | 1CT:2CT    | 0.2" (5.08)          | 1.2mH         | 1-3 & 6-8    |
| TG24-1205N1LF | A       | 0 to 70°C    | 1CT:1.36CT                             | 1CT:1.36CT | 0.2" (5.08)          | 1.2mH         | 16-14 & 6-8  |
| TG26-1205N1LF | A       | 0 to 70°C    | 1CT:2CT                                | 1CT:2CT    | 0.2" (5.08)          | 1.2mH         | 16-14 & 6-8  |
| TG27-1205N1LF | A       | 0 to 70°C    | 1CT:2CT                                | 1CT:1.36CT | 0.2" (5.08)          | 1.2mH         | 16-14 & 6-8  |
| TG38-1205N1LF | A       | 0 to 70°C    | 1CT:1.15CT                             | 1CT:1.15CT | 0.2" (5.08)          | 1.2mH         | 1-3 & 6-8    |
| TG42-1205N1LF | A       | 0 to 70°C    | 1CT:1.41CT                             | 1CT:1.41CT | 0.2" (5.08)          | 1.2mH         | 16-14 & 6-8  |
| TG48-1205N1LF | B       | 0 to 70°C    | 1CT:2CT                                | 1:1        | 0.2" (5.08)          | 1.2mH         | 1-3 & 6-8    |
| TG63-1205N1LF | C       | 0 to 70°C    | 1:1.15CT                               | 1CT:2CT    | 0.2" (5.08)          | 1.2mH         | 16-14 & 6-8  |
| TG64-1205N1LF | C       | 0 to 70°C    | 1:1:1.26                               | 1CT:2CT    | 0.2" (5.08)          | 1.2mH         | 16-14 & 6-8  |
| TG73-1205N5LF | A       | 0 to 70°C    | 1CT:2.3CT                              | 1CT:1CT    | 0.250" (6.35)        | 1.2mH         | 16-14 & 6-8  |
| TG74-1205N1LF | A       | 0 to 70°C    | 1CT:1CT                                | 1CT:2CT    | 0.2" (5.08)          | 1.2mH         | 16-14 & 6-8  |
| TG80-1205N5LF | A       | 0 to 70°C    | 1CT:2.45CT                             | 1CT:2.45CT | 0.250" (6.35)        | 1.2mH         | 16-14 & 6-8  |
| TG08-1505N5LF | A       | -40 to +85°C | 1CT:2CT                                | 1CT:2CT    | 0.250" (6.35)        | 1.5mH         | 1-3 & 6-8    |
| TG23-1505N5LF | D       | -40 to +85°C | 1:2.42CT                               | 1:2.42CT   | 0.250" (6.35)        | 1.5mH         | 1-3 & 6-8    |
| TG24-1505N5LF | A       | -40 to +85°C | 1CT:1.36CT                             | 1CT:1.36CT | 0.250" (6.35)        | 1.5mH         | 16-14 & 6-8  |
| TG26-1505N5LF | A       | -40 to +85°C | 1CT:2CT                                | 1CT:2CT    | 0.250" (6.35)        | 1.5mH         | 16-14 & 6-8  |
| TG27-1505N5LF | A       | -40 to +85°C | 1CT:2CT                                | 1CT:1.36CT | 0.250" (6.35)        | 1.5mH         | 16-14 & 6-8  |
| TG38-1505N5LF | A       | -40 to +85°C | 1CT:1.15CT                             | 1CT:1.15CT | 0.250" (6.35)        | 1.5mH         | 1-3 & 6-8    |
| TG42-1505N5LF | A       | -40 to +85°C | 1CT:1.41CT                             | 1CT:1.41CT | 0.250" (6.35)        | 1.5mH         | 16-14 & 6-8  |
| TG48-1505N5LF | B       | -40 to +85°C | 1CT:2CT                                | 1:1        | 0.250" (6.35)        | 1.5mH         | 1-3 & 6-8    |
| TG63-1505N5LF | C       | -40 to +85°C | 1:1.15CT                               | 1CT:2CT    | 0.250" (6.35)        | 1.5mH         | 16-14 & 6-8  |
| TG64-1505N5LF | C       | -45 to +85°C | 1:1:1.26                               | 1CT:2CT    | 0.250" (6.35)        | 1.5mH         | 16-14 & 6-8  |
| TG73-1505N5LF | A       | -40 to +85°C | 1CT:2.3CT                              | 1CT:1CT    | 0.250" (6.35)        | 1.5mH         | 16-14 & 6-8  |
| TG74-1505N5LF | A       | -40 to +85°C | 1CT:1CT                                | 1CT:2CT    | 0.250" (6.35)        | 1.5mH         | 1-3 & 6-8    |
| TG80-1505N5LF | A       | -40 to +85°C | 1CT:2.45CT                             | 1CT:2.45CT | 0.250" (6.35)        | 1.5mH         | 16-14 & 6-8  |
| TG91-1505N5LF | A       | -40 to +85°C | 1CT:2.4CT                              | 1CT:1CT    | 0.250" (6.35)        | 1.5mH         | 1-3 & 6-8    |

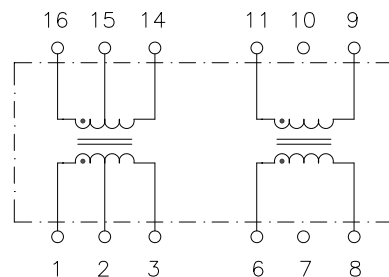
For additional information contact your [local representative](#), or HALO's support staff at (650) 903-3800 or [info@haloelectronics.com](mailto:info@haloelectronics.com)

# HALO Dual Channel T1/E1 Transformer

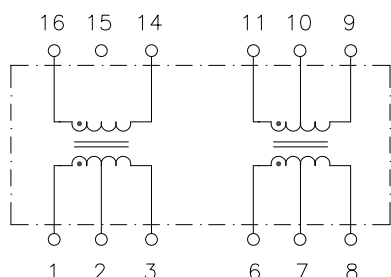
Circuit A



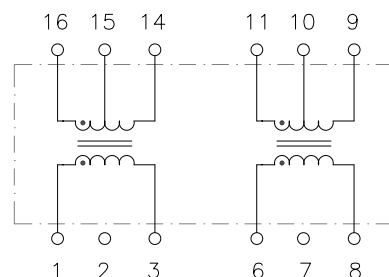
Circuit B



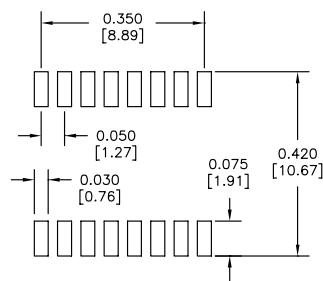
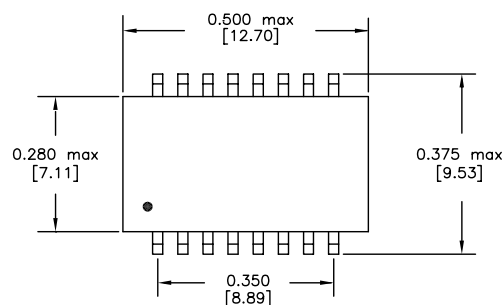
Circuit C



Circuit D

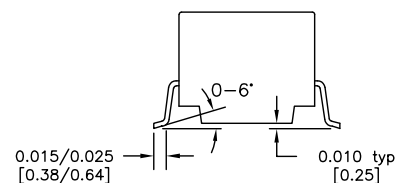
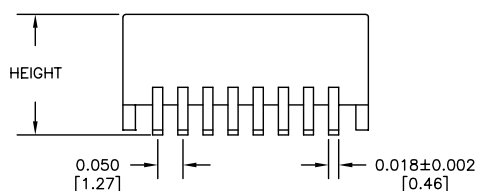


## Mechanical



### Recommended Solder Pad Layout

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



### 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

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