

# T1/E1 Line Interface Modules

SMD Package

**HALO**  
ELECTRONICS, INC.



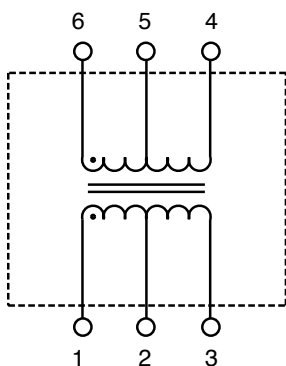
## Product Features:

- Standard series of 6 pin SMD Line Interface Modules to meet the isolation and impedance matching requirements for T1, E1, CEPT and PRI ISDN applications.
- Isolation modules are available for all popular LIU's.
- 1,500 Vrms hi-pot
- Patented Open Frame Construction
- UL60950 and EN60950

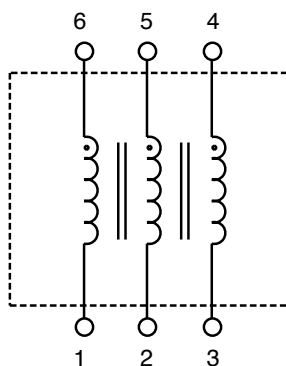
| Part Number   | Schem. | Turns Ratio<br>PRI/SEC | OCL<br>(mH Typ) | Cw/w<br>(pF max) | DCR<br>Pri<br>(Ω max) | Primary<br>Pins | Temperature<br>Range |
|---------------|--------|------------------------|-----------------|------------------|-----------------------|-----------------|----------------------|
| TG02-1205NSRL | D      | 1CT:1                  | 1.2             | 30               | 0.70                  | 1-3             | 0 to +70C            |
| TG04-1205NSRL | A      | 1CT:1CT                | 1.2             | 30               | 0.70                  | 1-3             | 0 to +70C            |
| TG08-1205NSRL | A      | 1CT:2CT                | 1.2             | 30               | 0.70                  | 1-3             | 0 to +70C            |
| TG10-1205NSRL | B      | 1:1:1                  | 1.2             | 30               | 0.70                  | 3-4             | 0 to +70C            |
| TG15-1205NSRL | D      | 2CT:1                  | 1.2             | 30               | 0.70                  | 1-3             | 0 to +70C            |
| TG23-1505NSRL | C      | 1:2.42CT               | 1.5             | 35               | 0.80                  | 1-3             | -40 to +85C          |
| TG37-1205NSRL | C      | 1:1.14CT               | 1.2             | 30               | 0.70                  | 1-3             | 0 to +70C            |
| TG38-1205NSRL | D      | 1:1.15CT               | 1.2             | 30               | 0.70                  | 4-6             | 0 to +70C            |
| TG42-1205NSRL | A      | 1CT:1.41CT             | 1.2             | 30               | 0.70                  | 1-3             | 0 to +70C            |
| TG70-1205NSRL | C      | 1:1.36CT               | 1.2             | 30               | 0.70                  | 1-3             | 0 to +70C            |
| TG71-1205NSRL | C      | 1:2.3CT                | 1.2             | 30               | 0.70                  | 1-3             | 0 to +70C            |

Note: Please contact the factory for "LF" lead free availability.

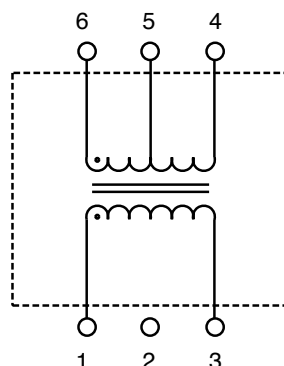
Schematic A



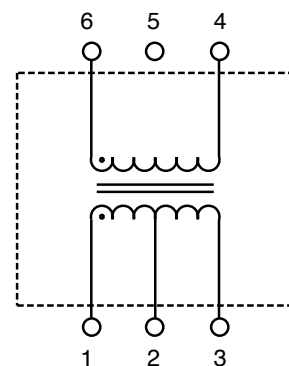
Schematic B



Schematic C



Schematic D



# T1/E1 Line Interface Modules

## Package NS



Recommended  
Solder Pad Dimensions

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

### 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



2880 Lakeside Drive #116  
Santa Clara, CA 95054  
(650) 903-3800  
[www.haloelectronics.com](http://www.haloelectronics.com)

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