# **HDSL** Line Interface Transformers

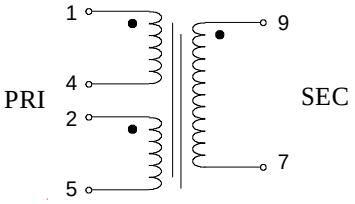
*Thru-hole & Surface Mount Versions*

| Manufacturer Name | I.C. Part # | Bit Rate | Transformer Part # |
|---|---|---|---|
| Brooktree | BT8921 | 784 | T-982 |
| Brooktree | BT8921 | 1168 | T-976 |
| Brooktree | BT8960 | 160 | T-984 |
| Brooktree | BT8960 | 288 | T-940 |
| Brooktree | BT8960 | 416 | T-983 |
| Brooktree | BT8970 | 784 | T-982 |
| Brooktree | BT8970 | 1168 | T-976 |

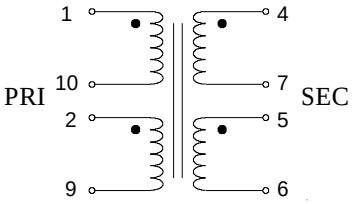
Electrical Specifications at 25°C

| P/N | T-911 | T-940 | T-976 | T-982 | T-983 | T-984 | Units |
|---|---|---|---|---|---|---|---|
| Turns Ratio | 1:1 | 2:1 | 2:1 | 2:1 | 2:1 | 2:1 | |
| Inductance | 3 | 5 | 2 | 3 | 3.5 | 8 | mH |
| DC Resistance Pri | 3.8 | 3.5 | 2.5 | 2.5 | 2.5 | 4.0 | Ω |
| DC Resistance Sec | 3.8 | 2.2 | 1.0 | 1.0 | 1.0 | 2.3 | Ω |
| Frequency Response | 0.1 | 0.07 | 0.1 | 0.7 | 0.1 | 0.1 | dB |
| Insertion Loss | 0.5 | 0.43 | 0.5 | 0.4 | 0.5 | 0.5 | dB |
| D.C. Current | 100 | 100 | 160 | 160 | 60 | 60 | mA |
| Longitudinal Balance | 50 | 53 | 50 | 53 | 53 | 53 | dB |
| Return Loss | 17 | 17 | 16.5 | 20 | 17 | 16 | dB |
| Harmonic Distortion | -70 | -70 | -70 | -70 | -70 | -70 | dB |
| Isolation | 1000 | 1500 | 1500 | 1500 | 1500 | 1500 | $V_{RMS}$ |
| Schematic Style | B | A | A | A | A | A | |

Schematic "A"

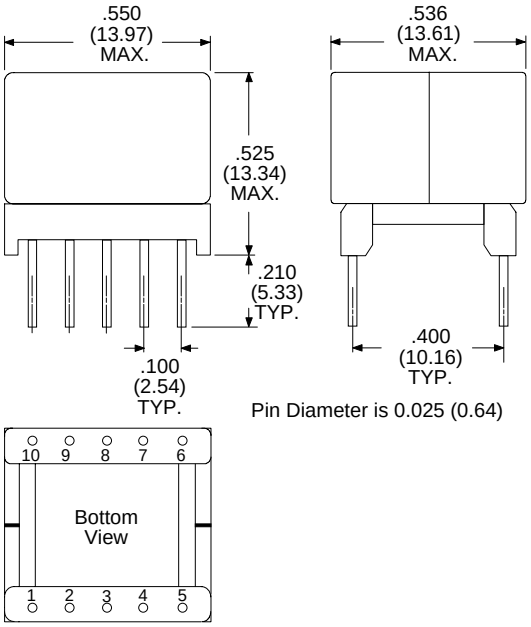



Schematic "B"

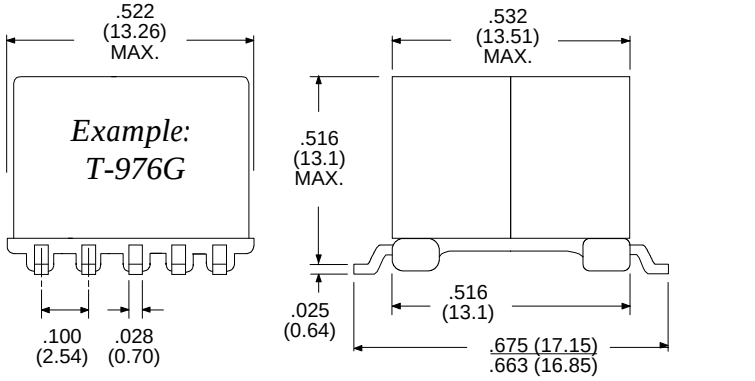



***Request Individual Data Sheets for test conditions & additional information***

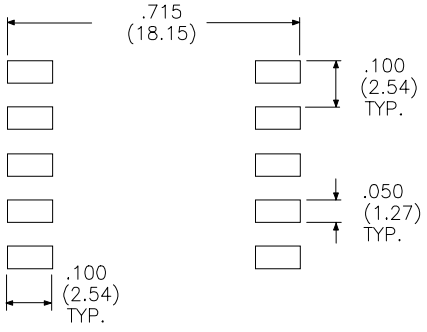
*Standard Thru-hole EP-13 Package*




*Surface Mount Versions of all Parts listed are available.*
*Add suffix "G" to specify surface mount package style.*




Physical Dimensions
inches (mm)




***For Complete Details including PDF Catalogs & Data Sheets on this and other product families visit***

**www.rhombus-ind.com**

*For other values & Custom Designs, contact factory.*

Specifications subject to change without notice.

HDSL-EP-5/99




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