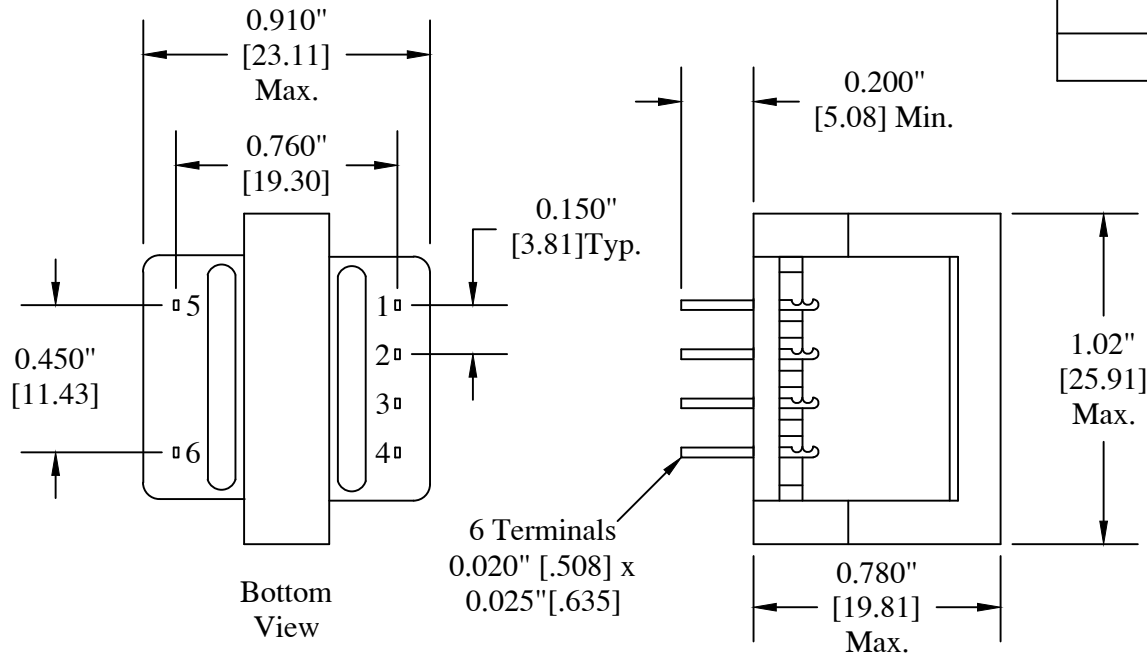


- VOICE & DATA APPLICATIONS.
- FOR V.29 MODEMS (9.6Kbps)
- DESIGNED FOR WET (50mA DC) CIRCUITS.
- IMPEDANCE RATIO OF 600 Ω : 600 Ω
- ALTERNATE ECONOMY PART SPT-196.
- UL RECOGNIZED COMPONENT - UL 1863, FILE E138250

| REVISIONS  |     |                                  |        |
|------------|-----|----------------------------------|--------|
| DATE       | REV | DESCRIPTION                      | APP'VD |
| 10/26/1982 | -1  | Changed THD to 0.13 was .3       | GG     |
| 10/05/1993 | -2  | Changed THD, was spec'd in %     | Tjk    |
| 01/26/2016 | -3  | Updated entire drawing, added mm | Tjk    |
|            |     |                                  |        |
|            |     |                                  |        |
|            |     |                                  |        |



Electrical Parameters:  
 Primary Impedance : 600 Ω  
 Secondary Impedance : 600 Ω  
 Turns Ratio : 1 : 1 ±2%  
 DC Resistance :  
 Primary 75 Ω ±10%  
 Secondary 76 Ω ±10%  
 Max DC Current : 50 mAdc  
 Frequency Range : 300-3500Hz  
 Insertion Loss : 1.25B Ref. @ 1KHz  
 Frequency Response : ±0.5dB, 1KHz Ref.  
 Return Loss : 12.5 dB Min. @ 300Hz (Load 422 Ω)  
 Longitudinal Balance : 60dB Min, per IEEE  
 Dielectric 1500Vrms : P-S-C, 1 Second  
 THD @ 0dbm, 300Hz : -59dB typical  
 600 Ohm load for transmission tests

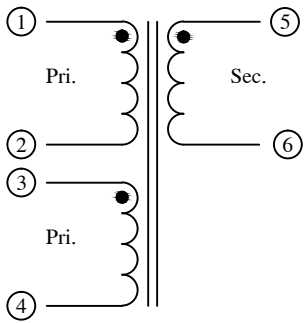
Note : Pin Numbers are reference only. [ ] = mm

All dimensions are reference unless otherwise specified.

Note : Reflected Z = 745 Ref. (Ohms) @ 1KHZ, 50mA D.C./Primary & 600 Ohm RL/Secondary

Note: ERL optimized value 27dB Ref. Secondary loaded with 470 ohms and 0.033μF capacitor, 50mADC on Primary

Schematic



|   |                      |   |   |
|---|----------------------|---|---|
| <p><b>PREM</b><sup>®</sup><br/>MAGNETICS INCORPORATED</p> |                      | <p>CUSTOM ENGINEERING MAGNETIC COMPONENTS<br/>         Johnsburg, Illinois<br/>         3521 N. Chapel Hill Rd. / McHenry, Illinois 60051</p> |   |
|   |                      | <p>SCALE: None</p>  | <p>APPROVED BY:<br/><i>Tj Klotz</i></p> |
| <p>DATE: 01-25-16</p>                                     | <p>p/n SPT - 113</p> |   | <p>REVISED</p>                          |
| <p>DRAWING NUMBER</p>                                     |                      |   | <p>B-SPT-113</p>                        |