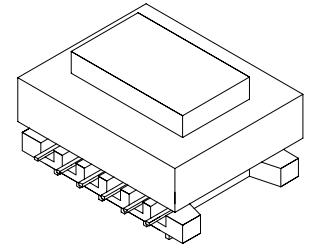


TLA6821 is a split winding Line Matching Transformer with the following features:

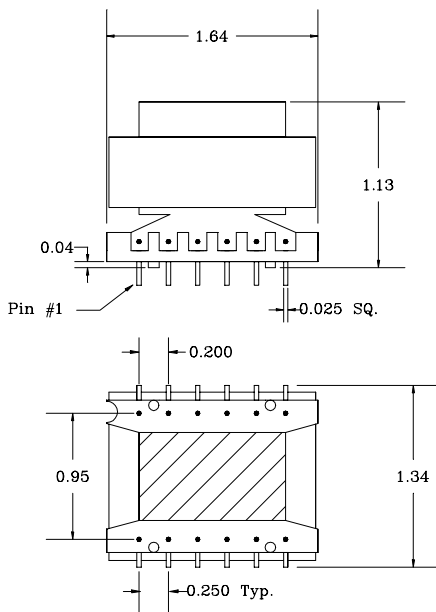
- Good magnetic shielding.
- High Longitudinal Balance.
- DC capability, 70 mA.

Applications:

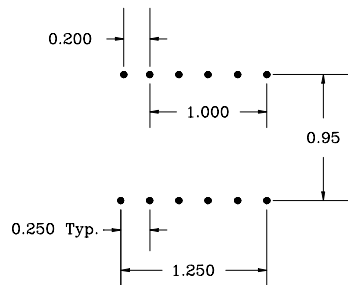
Interfacing subscriber equipment to a 600Ω 2-wire subscriber line, and where DC handling capability is required.



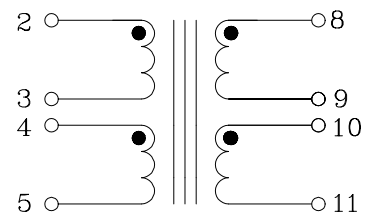
MECHANICAL AND SCHEMATIC (All dimensions in inches)



SUGGESTED PCB PINOUT



SCHEMATIC



ELECTRICAL SPECIFICATIONS @ 25°C

TLA6821 has the following performance when terminated with 600Ω, and up to 70 mA DC in either primary or secondary windings.

| Part Number | DCR (Ω)   |             | Insertion Loss (dB)<br>@ 1KHz | Frequency Response (dB)<br>200 Hz-3400 Hz | Return Loss (dB)<br>300 Hz-3400Hz | Longitudinal Balance (dB)<br>300 Hz-3400 Hz | Distortion<br>@ 200Hz, 0 dBm | Crosstalk (dB)<br>@ 1.00" spacing | Hipot (Vrms) |
|-------------|-----------|-------------|-------------------------------|---|-----------------------------------|---|------------------------------|-----------------------------------|--------------|
|             | 2-3 & 4-5 | 8-9 & 10-11 |                               |   |                                   |   |                              |                                   |              |
| 6821        | 17.5 ea   | 20.8 ea     | <0.7                          | <0.5                                      | >17                               | >60   | <0.5%                        | 75                                | 1500         |

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