

XDSL SPLITTER FILTER MODULE

B8891NL

SmartER Series



Pulse
A TECHNITROL COMPANY



- Ⓢ POTS CO Splitter for China YD/T 1187-2006 ADSL2+ 600 Ω applications
- Ⓢ LPF matched to 600 Ω impedance
- Ⓢ Part of a standard series that has footprint compatibility
- Ⓢ For ADSL, ADSL2+ and VDSL applications
- Ⓢ Compliant with Broadband Forum TR-127 standard for VDSL2 applications
- Ⓢ Patented technology US7598837, US7598839, CN1667763, EP1644943, TWI316724, CA2531599

Electrical Specifications @ 25°C

| PARAMETER | FREQUENCY | |
|--|-----------------------------------|----------------------|
| POTS Impedance | 200 Hz to 4 kHz | 600 Ω |
| POTS Insertion loss | 1 kHz | 0.3 dB MAX |
| POTS Insertion Loss Distortion relative to 1 kHz | 200 Hz to 4 kHz | 0.3 dB MAX |
| POTS Return Loss | 300 Hz to 500 Hz/2 kHz to 3.4 kHz | 14 dB MIN |
| | 500 Hz to 2 kHz | 18 dB MIN |
| POTS Group Delay | 200 Hz to 4 kHz | 150 μ s MAX |
| Longitudinal Balance | 50 Hz to 600 Hz | 40 dB MIN |
| | 600 Hz to 3.4 Hz | 46 dB MIN |
| | 3.4 kHz to 4 kHz | 40 dB MIN |
| xDSL Insertion Loss | 30 kHz to 138 kHz | 45 dB MIN |
| | 138 kHz to 2.2 MHz | 55 dB MIN |
| | 2.2 MHz to 12 MHz | 35 dB MIN |
| Tip-to-Ring Capacitance | | 20 nF MIN 115 nF MAX |
| Tip-to-Ring Insulation Resistance | | 5 M Ω MIN |
| DC Current | | 100 mA MAX |
| Total DC Resistance | | 25 Ω MAX |

The mechanical and schematic are on the next page.

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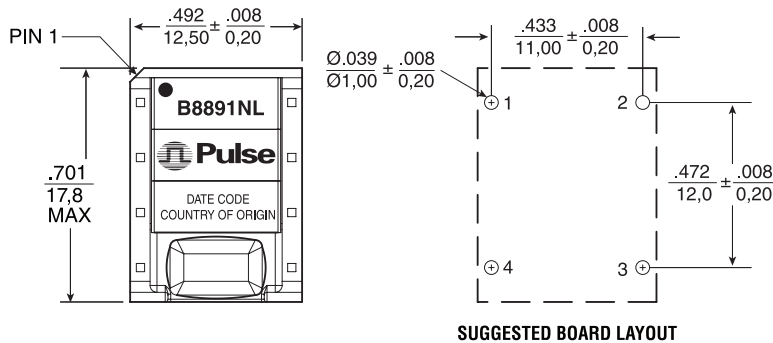
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Mechanical

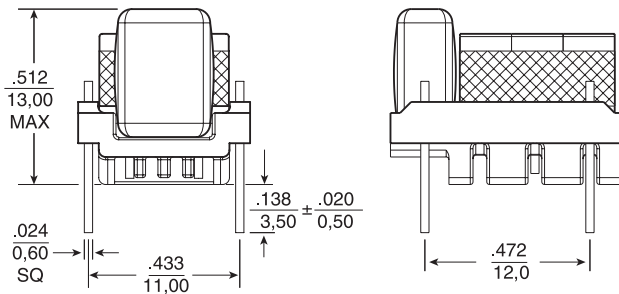
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SUGGESTED BOARD LAYOUT

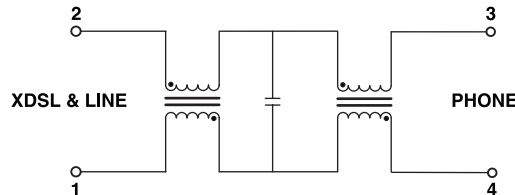
Weight 5.0 grams
Tray 80/tray

Dimensions: $\frac{\text{Inches}}{\text{mm}}$
 Unless otherwise specified,
 all tolerances are $\pm \frac{.010}{0,25}$



Schematic

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