

# xDSL SPLITTER FILTER MODULE

## B8817NL



### SmartER Series



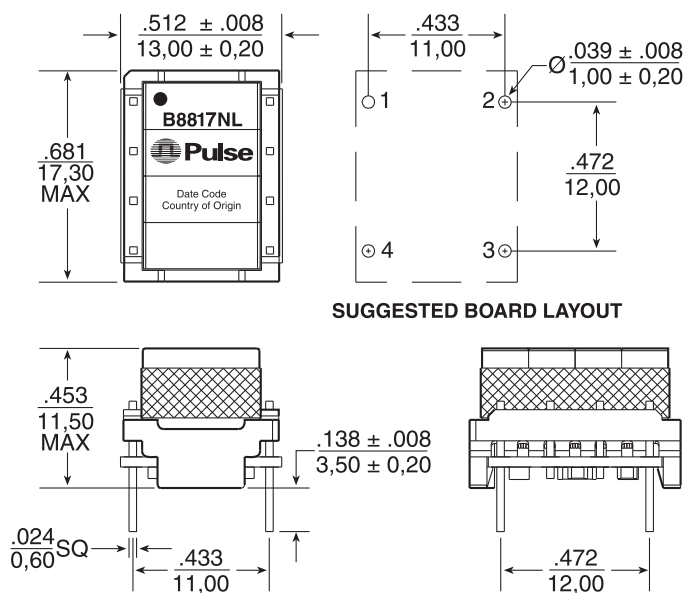
-  POTS CO splitter for ETSI 600 Ω ADSLto VDSL2 applications
-  POTS CO Splitter for China YD/T 1187-2006 ADSL2+ 600 Ω
-  LPF matched to 600 Ω impedance
-  Part of a standard series which has footprint compatibility
-  Compliant with Broadband Forum TR-127 for VDSL2 applications
-  Patented technology: 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    | 200 Hz to 4 kHz                       | 0.3 dB MAX                 |
| POTS Return Loss                  | 300 Hz to 500Hz / 2.0 kHz to 3.4 kHz  | 14 dB MIN                  |
|                                   | 500 Hz to 2.0 kHz                     | 18 dB MIN                  |
| Group Delay                       | 200 Hz to 3.4 kHz                     | 150 μS MAX (Typical 65 μS) |
| Longitudinal Balance              | 50 Hz to 600 Hz / 3.4 kHz to 30 kHz   | 40 dB MIN                  |
|                                   | 600 Hz to 3.4 kHz / 30 kHz to 1.1 MHz | 46 dB MIN                  |
|                                   | 1.1 MHz to 30 MHz                     | 30 dB MIN                  |
| xDSL Insertion Loss               | 30 kHz to 30 MHz                      | 55 dB MIN                  |
| Tip to Ring Capacitance           | —                                     | 20 nF MIN 115 nF MAX       |
| Tip to Ring Insulation Resistance | —                                     | 5 MΩ MIN                   |
| DC Current                        | —                                     | 100 mA MAX                 |
| Total DC Resistance               | —                                     | 25 Ω MAX                   |

### Mechanical

#### B8817NL



SUGGESTED BOARD LAYOUT

Weight ..... 5.5 grams

Tray ..... 80/Tray

Dimensions:  $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified,  
all tolerances are  $\pm \frac{.010}{0,25}$

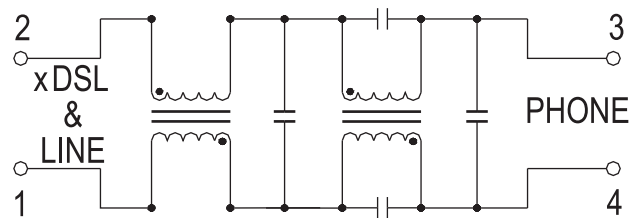
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### Schematic

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