



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# XDSL SPLITTER FILTER MODULE

## B8891NL

SmartER Series



**Pulse**  
A TECHNITROL COMPANY



- Ⓢ POTS CO Splitter for China YD/T 1187-2006 ADSL2+ 600  $\Omega$  applications
- Ⓢ LPF matched to 600  $\Omega$  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 $\Omega$
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 $\mu$ 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 $\Omega$ MIN
DC Current		100 mA MAX
Total DC Resistance		25 $\Omega$ MAX

*The mechanical and schematic are on the next page.*

# XDSL SPLITTER FILTER MODULE

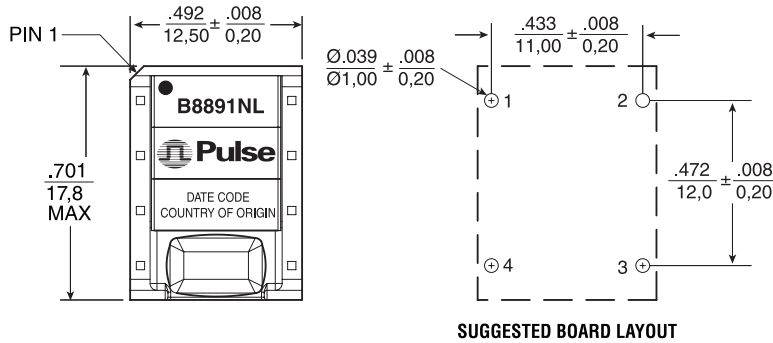
## B8891NL

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### Mechanical

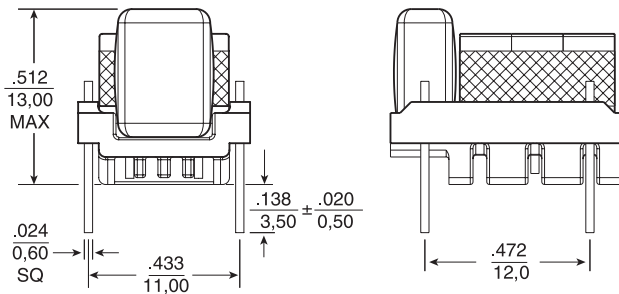
**B8891NL**



**SUGGESTED BOARD LAYOUT**

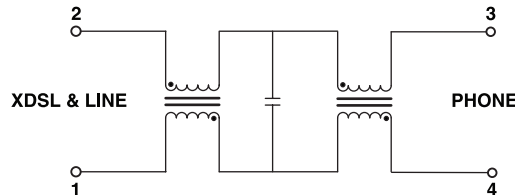
**Weight** ..... 5.0 grams  
**Tray** ..... 80/tray

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



### Schematic

**B8891NL**



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