



**THE DATASHEET OF  
B8846NL**



# XDSL SPLITTER FILTER MODULE

## B8846NL

SmartER Series



**Pulse**  
A TECHNITROL COMPANY



- ⊕ POTS CO splitter for standard ADSL2/VDSL2 (ITU G993.2) applications
- ⊕ LPF compliant with ETSI complex impedance ( $Z_L = 270 \Omega + 750 \Omega / 150 \text{ nF}$ ), option B of ETSI TS 101-952-1, v1.1.1 and to BT SIN-346 complex impedance ( $Z = 320 \Omega + 1050 \Omega / 230 \text{ nF}$ )
- ⊕ Part of a standard series which has footprint compatibility
- ⊕ For ADSL, ADSL2+, VDSL and VDSL2 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	100 Hz to 4 kHz	$Z_L=270 \Omega+750 \Omega /150 \text{ nF} - Z=320 \Omega+1050 \Omega /230 \text{ nF}$
POTS Insertion Loss	1 kHz	1d dB MAX
POTS Insertion Loss Distortion relative to 1 kHz	200 Hz to 4 kHz	1 dB MAX
POTS Return Loss	300 Hz to 2 kHz	18 dB MIN
	2 kHz to 3.4 kHz	14 dB MIN
POTS Group Delay	200 Hz to 4 kHz	200 $\mu\text{s}$ MAX
Longitudinal Balance	50 Hz to 600 Hz	40 dB MIN
	600 Hz to 3.4 kHz	46 dB MIN
	3.4 kHz to 4 kHz	40 dB MIN
xDSL Insertion Loss	32 kHz to 140 kHz	45 dB MIN
	140 kHz to 30 MHz	55 dB MIN
DC Current		80 mA MAX
Total DC Resistance		50 $\Omega$ MAX

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

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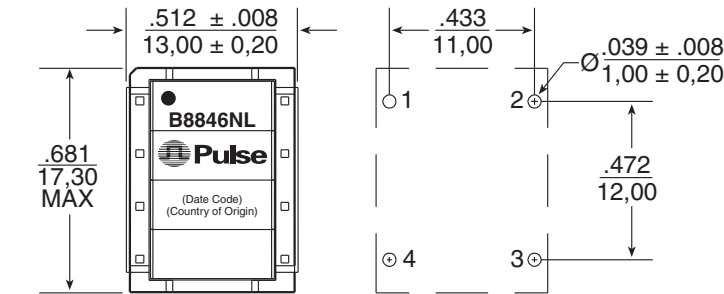


# Pulse

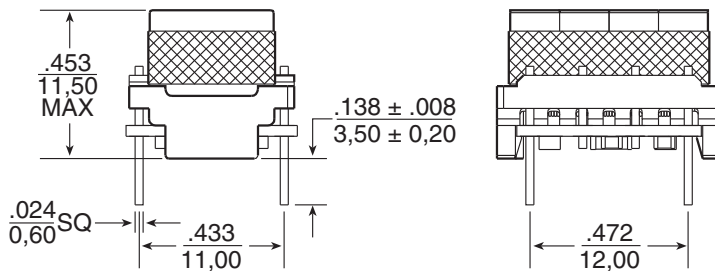
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## Mechanical

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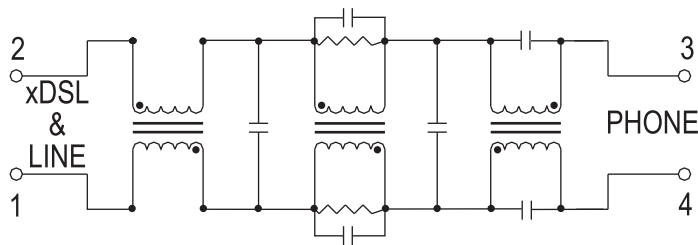
**SUGGESTED BOARD LAYOUT**



**Weight** . . . . . 5.0 grams  
**Tray** . . . . . .80/tray  
**Dimensions:** Inches  
 mm  
 Unless otherwise specified,  
 all tolerances are  $\pm \frac{.010}{0,25}$

## Schematic

**B8846NL**



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