

# XDSL SPLITTER FILTER MODULE

BX8841NL - SmartER series - Extended Temperature

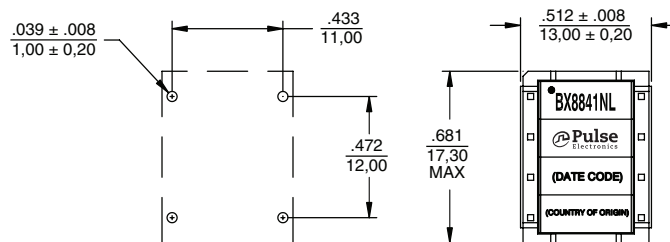


- Ⓢ POTS CO splitter for ETSI-B 600Ω ADSL to VDSL2 applications
- Ⓢ POTS CO splitter for China YD/T 1187-2006 ADSL2+ 600Ω
- Ⓢ LPF matched to 600Ω impedance
- Ⓢ Metering Pulse 12 kHz to 16 kHz
- Ⓢ Part of a standard series which has footprint compatibility
- Ⓢ Compliant with Broadband Forum TR-127 standard for VDSL2 applications
- Ⓢ Patented technology US7598837, US7598839, CN1667763, EP1644943, TWI316724, CA2531599

Electrical Specifications @ 25°C Operational Temperature -40°C to +85°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 500 Hz / 2.0 kHz to 3.4 kHz	14 dB MIN
	500 Hz to 2.0 kHz	18 dB MIN
Metering Pulse insertion loss	12KHz and 16KHz	3dB MAX
Group Delay	200 Hz to 3.4 kHz	150uS MAX (Typical 65uS)
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 Isolation	30 kHz to 30 MHz	55 dB MIN
xDSL Insertion Loss	32 kHz to 50 kHz	3.0 dB MAX
	50 kHz to 30 MHz	1.0 dB MAX
Intermodulation Distortion Attenuation	Second order / Third order	57 dB MIN / 60 dB MIN
Tip to Ring Capacitance		20 nF MIN 115 nF MAX
Tip to Ring Insulation Resistance	(measured with 250V DC)	5 MΩ MIN
DC Current		100 mA MAX
Total DC Resistance		25 Ω MAX

## Mechanical

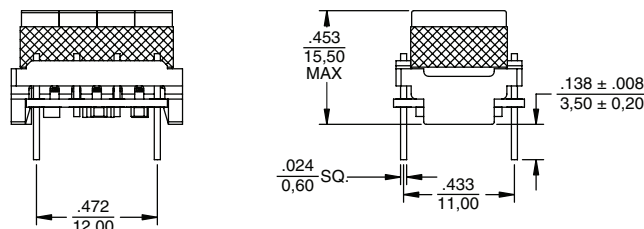
### BX8841NL



SUGGESTED BOARD LAYOUT

Weight ..... 5.5 grams  
 Tray ..... .80/tray

Dimensions: Inches  
 mm  
 Unless otherwise specified, all  
 tolerances are ± .010  
 0,25



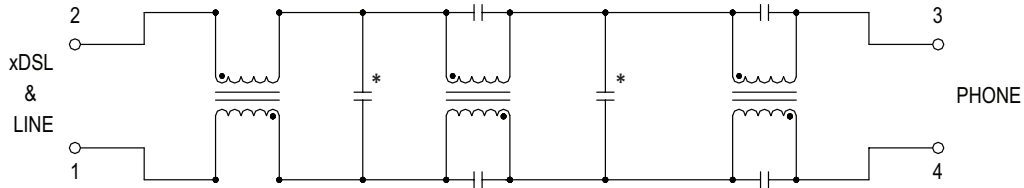
# XDSL SPLITTER FILTER MODULE

BX8841NL - SmartER series - Extended Temperature



## Schematic

**BX8841NL**



\* These capacitors are 500Vdc rated

## For More Information

### Pulse Worldwide Headquarters

12220 World Trade Drive  
San Diego, CA 92128  
U.S.A.

Tel: 858 674 8100  
Fax: 858 674 8262

### Pulse Europe

Einsteinstrasse 1  
D-71083 Herrenberg  
Germany

Tel: 49 7032 7806 0  
Fax: 49 7032 7806 135

### Pulse China Headquarters

B402, Shenzhen Academy of  
Aerospace Technology Bldg.  
10th Kejianan Road  
High-Tech Zone  
Nanshan District  
Shenzhen, PR China 518057

Tel: 86 755 33966678  
Fax: 86 755 33966700

### Pulse North China

Room 2704/2705  
Super Ocean Finance Ctr.  
2067 Yan An Road West  
Shanghai 200336  
China

Tel: 86 21 62787060  
Fax: 86 2162786973

### Pulse South Asia

135 Joo Seng Road  
#03-02  
PM Industrial Bldg.  
Singapore 368363

Tel: 65 6287 8998  
Fax: 65 6287 8998

### Pulse North Asia

3F, No. 198  
Zhongyuan Road  
Zhongli City  
Taoyuan County 320  
Taiwan R. O. C.

Tel: 886 3 4356768  
Fax: 886 3 4356823 (Pulse)  
Fax: 886 3 4356820 (FRE)

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners. © Copyright, 2012. Pulse Electronics, Inc. All rights reserved.