







# XDSL SPLITTER FILTER MODULE

## SmartER series



-  POTS CO Splitter for standard ADSL/VDSL2 (ITU-T G993.2) applications
-  LPF matched to ETSI complex impedance ( $Z_L = 270\Omega + 750\Omega/150nF$ ) and to option A of ETSI specification TS 101-952-1-1 v1.2.1
-  Part of a standard series which has footprint compatibility
-  For ADSL, ADSL2+, VDSL and VDSL2 applications
-  RoHS-6 compatible
-  Patented technology

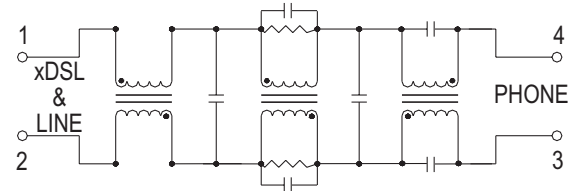
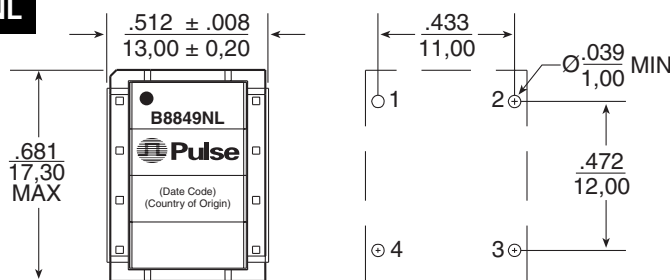
### Electrical Specifications @ 25°C

PARAMETER	FREQUENCY	
POTS Impedance	100Hz to 4kHz	270Ω + 750Ω /150nF
POTS Insertion Loss	1kHz	1.0dB MAX
POTS Insertion Loss Distortion relative to 1 kHz	200Hz to 4kHz	1.0dB MAX
POTS Return Loss	300Hz to 3.2kHz	12dB MIN
	3.2kHz to 3.4kHz	11.5dB MIN
	3.4kHz to 4kHz	8dB MIN
POTS Group Delay	200Hz to 4kHz	200μs MAX
Longitudinal Balance	50Hz to 600Hz	-40dB MIN
	600Hz to 3.4kHz	-46dB MIN
	3.4kHz to 4kHz	-40dB MIN
xDSL Insertion Loss	32kHz to 30MHz	55dB MIN
DC Current		80mA MAX
Total DC Resistance		50Ω MAX

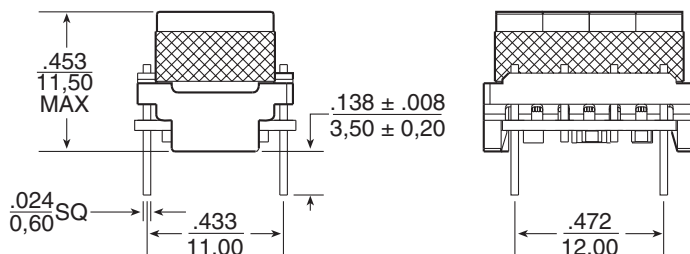
### Mechanical

### Schematic

**B8849NL**



### SUGGESTED BOARD LAYOUT



Weight ..... 5.0 grams  
 Tray ..... .80/tray  
 Dimensions:  $\frac{\text{Inches}}{\text{mm}}$   
 Unless otherwise specified,  
 all tolerances are  $\pm \frac{.010}{0.25}$

### For More Information:

#### Pulse Worldwide Headquarters

12220 World Trade Dr.  
 San Diego, CA 92128  
 U.S.A.  
[www.pulseeng.com](http://www.pulseeng.com)

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 12

#### Pulse China Headquarters

B402, Shenzhen  
 Tech-Innovation International  
 Tenth Kejinan Rd.  
 High-Tech Industrial Park  
 Nanshan District, Shenzhen  
 China

Tel: 86 755 33966678  
 Fax: 86 755 33966700

#### Pulse North China

Room 1503  
 XinYin Building  
 No. 888 YiShan Rd.  
 Shanghai 200233  
 China

Tel: 86 21 54643211/2  
 Fax: 86 21 54643210

#### Pulse South Asia

150 Kampong Ampat  
 #07-01/02  
 KA Centre  
 Singapore 368324

Tel: 65 6287 8998  
 Fax: 65 6280 0080

#### Pulse North Asia

No. 26  
 Kao Ching Rd.  
 Yang Mei Chen  
 Tao Yuan Hsien  
 Taiwan, R. O. C.

Tel: 886 3 4641811  
 Fax: 886 3 4641911

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, 2007. Pulse Engineering, Inc. All rights reserved.