

# VDSL Line Transformers

For Use with Ikanos Chipset



- Matched to Ikanos SmartLeap chipset
- Both versions designed to meet IEC950 operational or supplementary insulation requirements for working voltages up to 250 Vrms
- Compact industry standard surface mount footprint
- Extended temperature range

## Electrical Specifications @ 25°C - Operating Temperature -40°C to +85°C

RoHS-5 Compliant Part Number	RoHS-6 Compliant Part Number	Turns Ratio (Line:Chip)	OCL Line (μH ±7%)	Leakage Inductance (μH MAX)	Insertion Loss @ 80 kHz to 12.5 MHz (dB MAX)	HD @ 80 kHz, 4 Vp-p (dB MIN)	Hipot (Vrms)
BX4052W	-	3:1	220	1.0	1.30	-80	1500
-	BX4082WNL						
-	BX4090WANL	3.5:1	200				
-	BX4091WANL						

**Notes:** BX4052W and BX4091WANL are the supplementary insulation versions as per IEC950 for working voltage up to 250 Vrms.

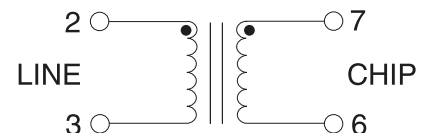
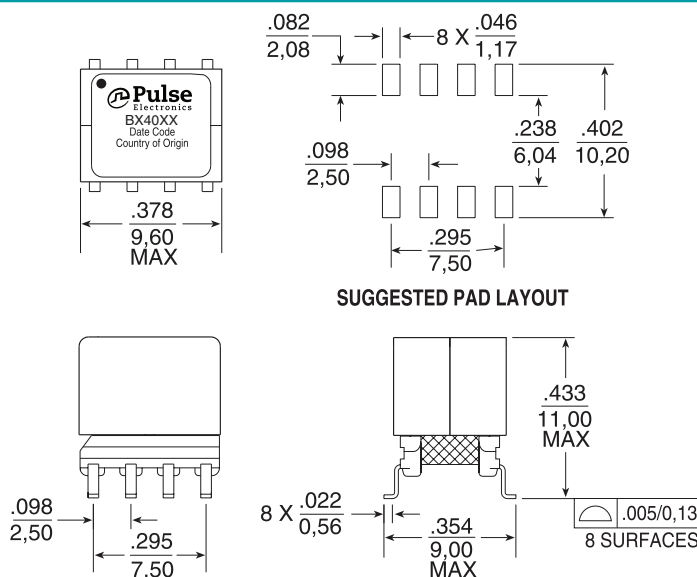
BX4082W and BX4090WANL are the operational insulation versions as per IEC950 for working voltage up to 250 Vrms.

Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number, i.e. BX4082WNLT.

## Mechanical

## Schematic

### BX40XX



Weight .....1.8 grams  
Tape & Reel .....300/tube  
Tray .....95/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 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 78060  
Fax: 49 7032 7806 135

### Pulse China Headquarters

B402, Shenzhen Academy of  
Aerospace Technology Bldg.  
10th Kejinan 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 21 62786973

### 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.