





# 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

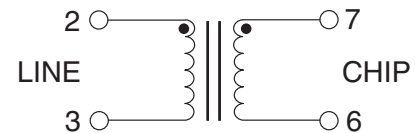
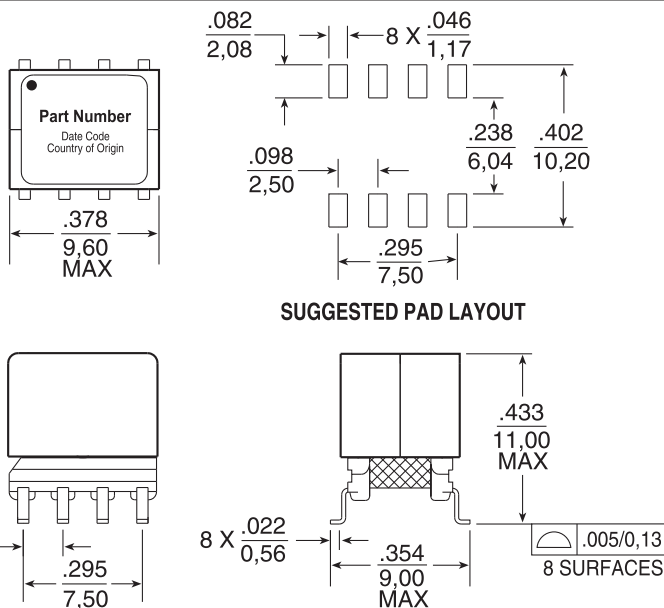
### Electrical Specifications @ 25°C — Operating Temperature -40°C to +85°C

RoHS-5 Compliant Part Number	RoHS-6 Compliant Part Number	Turns Ratio (Line:Chip)	OCL Line ( $\mu\text{H} \pm 7\%$ )	Leakage Inductance ( $\mu\text{H MAX}$ )	Insertion Loss @ 80 kHz to 12.5 MHz (dB MAX)	THD @ 80 kHz, 4 Vp-p (dB MIN)	Hi-Pot (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. BX4082WNL 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



Weight . . . . . 1.8 grams  
 Tape & Reel . . . . . 300/reel  
 Tray . . . . . 95/tray

Dimensions:  $\frac{\text{Inches}}{\text{mm}}$   
 Unless otherwise specified, all tolerances are  $\pm \frac{.010}{0.25}$

### For More Information:

<b>Pulse Worldwide Headquarters</b> 12220 World Trade Dr. San Diego, CA 92128 U.S.A. <b>www.pulseeng.com</b> Tel: 858 674 8100 Fax: 858 674 8262	<b>Pulse Europe</b> Zepplinstrasse 15 D-71083 Herrenberg Germany Tel: 49 7032 7806 0 Fax: 49 7032 7806 135	<b>Pulse China Headquarters</b> B402, Shenzhen Academy of Aerospace Technology Bldg. 10th Kejinan Rd. High-Tech Zone Nanshan District Shenzhen, PR China 518057 Tel: 86 755 33966678 Fax: 86 755 33966700	<b>Pulse North China</b> Room 2704/2705 Super Ocean Finance Ctr. 2067 Yan An Rd. West Shanghai 200336 China Tel: 86 21 62787060 Fax: 86 2162786973	<b>Pulse South Asia</b> 135 Joo Seng Rd. #03-02 PM Industrial Bldg. Singapore 368363 Tel: 65 6287 8998 Fax: 65 6287 8998	<b>Pulse North Asia</b> 3F, No. 198 Zhongyuan Rd. 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, 2010. Pulse Engineering, Inc. All rights reserved.

[www.pulseeng.com](http://www.pulseeng.com)

B831.D (5/10)