# PORTNOTE®

## **VDSL Over POTS**

## **ITU-T & GR-1089-CORE Solution**

#### **Solution Products**



TBU-CA085-500-WH



2020-42T-C2FLF



## Design Kit



PN-DESIGNKIT-43

#### **Objective**

VDSL circuits are sometimes combined with Plain Old Telephone Service (POTS) circuits. This solution protects those communication ports against surge and power contact threats.

#### **Solution**

2 TBU\* High-Speed Protectors: TBU-CA085-500-WH 1 GDT: 2020-42T-C2FLF

2 Telefuse™ Telecom Fuses: B1250T

### **Compliance**

ITU-T K.20, K.45, K.21 (Enhanced)

- 6 kV 10/700  $\mu s$  Lightning Surge
- ullet 600  $V_{rms}$  Power Induction
- 230 V<sub>rms</sub> Power Contact

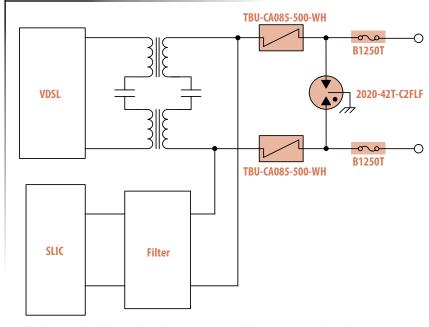
GR-1089-CORE Issue 6

#### **Alternate Recommendations**

Variations of this circuit are available depending on specific design constraints; contact your local Bourns technical representative for more information.

#### **Benefit**

This solution provides protection to the voice and data circuits without impairing the VDSL 30 MHz signal.



The schematic above illustrates the application protection and does not constitute the complete circuit design. Customers should verify actual device performance in their specific applications.

## **BOURNS**®

**Europe:** *Tel* +41-(0)41 768 55 55

*Fax* +41-(0)41 768 55 10

**Americas:** *Tel* +1-951 781-5500 *Fax* +1-951 781-5700

**Asia-Pacific:** *Tel* +886-2 256 241 17

Fax +886-2 256 241 16

Bourns\* PortNote\* solutions provide protection recommendations for typical port threats.

For more information, go to:

www.bourns.com

or email: protection@bourns.com

COPYRIGHT© 2012 • BOURNS, INC. • 10/12 • e/CPK1236 • "PortNote" is a registered service mark of Bourns, Inc. "Telefuse" is a trademark of Bourns, Inc. "Bourns" and "TBU" are registered trademarks of Bourns, Inc. in the U.S. and other countries.