

UVS-12

xDSL POTS Splitter For VDSL2/ADSL2+, IPTV Services

Suitable For All DSL Services
Operating Up To 30 MHz

Meets IPTV Ring Trip Saturation
Current Requirements for
VDSL2 and ADSL2+ Systems
Delivering IPTV Signals

Utilizes Circuit Approved by
CALIX, IOL for VDSL2/ADSL2+,
IPTV Deployment

Encapsulated for Long Term
Indoor/Outdoor Deployment

Listed to UL 1863



Tii Technologies Inc.

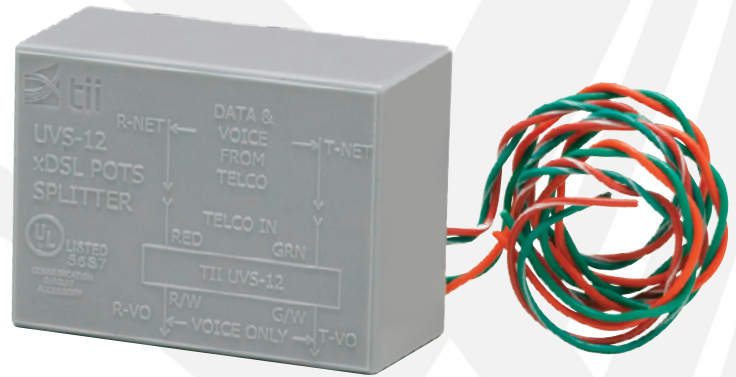
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UVS-12

The UVS-12 POTS Splitter is a single line unit designed to be installed in series on the telephone line at the customer's premises providing a filtered POTS line connection for customer use. The UVS-12 xDSL POTS Splitter is designed to be used for all DSL services operating up to 30 MHz frequencies.

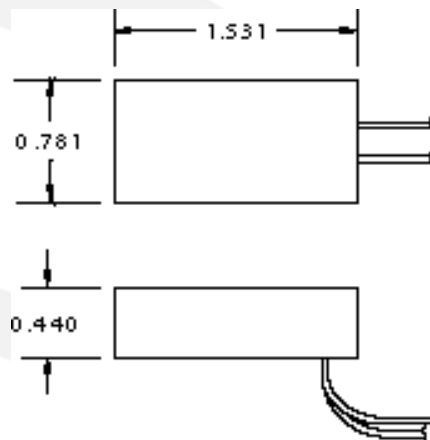
KEY PRODUCT BENEFITS

- ▶ The UVS-12 is environmentally encapsulated in a plastic shell with 4 eight inch wire leads allowing for flexible mounting options
- ▶ Provides a filtered connection for customer POTS lines

INDUSTRY STANDARDS

- ▶ Listed to UL 1863
- ▶ Compliant with ANSI T1.424
- ▶ Meets GR-1089-CORE requirements

UVS-12



Dimensions are in Inches

SPECIFICATIONS

Electrical (Complies with ANSI T1.424 Issue 2 Annex E)

DC Loop Current	0 to 100 mA
DC Loop Voltage (tip-to-ring)	0 to -60Vdc
Ringing Signals	103 Vrms superimposed on the DC Loop Voltage; 20 - 30 Hz
DC Resistance	< 20 ohms, POTS tip-to-ring with Line port (U-R) shorted
Insertion Loss (Short & Long Loop)	≤ 0.5 dB
Tip-to-Ring Capacitance, POTS port	20 ≤ C ≤ 100 nF; 20 - 30 Hz
Input Impedance (Measured Level)	≤ 0.25 dB; 25 kHz - 30 MHz, ZTr = 600
Attenuation Distortion (Voice Band), increase relative to Insertion Loss at 1004 Hz	+0.7 to -0.5dB; 200 - 3.4 kHz, short loop, ZTc = 900, ZTr = 600 +0.7 to -0.5dB; 3.4 - 4.0 kHz, short loop, ZTc = 900, ZTr = 600 +0.4 to -0.5dB; 200 - 3.4 kHz, long loop, ZTc = 900, ZTr = 600 +0.5 to -0.5dB; 3.4 - 4.0 kHz, long loop, ZTc = 900, ZTr = 600
Delay Distortion (Voice Band)	< 25μs
Return Loss (Voice Band) (Short & Long Loop)	> 7 dB
Longitudinal Balance, Two Port Technique, DSL to Line Port	> 30 dB; 25kHz - 30 MHz
Capacitance to Ground, POTS Port	≤ 1.0 nF; 20 - 30 Hz
DSL Band Attenuation	> 65 dB; 25kHz - 25MHz >60dB; 25MHz - 30MHz
DC Current Influence (Ring Trip)	< 2% up to 300 mA
Inter-modulation Distortion	-60dBc; 200 to 4000 Hz

Environmental

Operating Temperature	-40 to +65°C (-40 to 149°F)
Relative Humidity	0 to 95%, non-condensing
UL Listed	As a communication circuit accessory

ORDERING INFORMATION

Model No.

UVS-12

Description

xDSL POTS Splitter