



## Features

- Combines ADSL2+ / VDSL2 splitter with twisted pair to coaxial adapter
- Fast and easy installation
- Service interoperability and compatibility with most existing NIDs
- Saves space by only occupying a single position in standard NIDs



This series of DSL splitters is not recommended for new designs.

## 3617-01 Series DSL Splitter with Integrated Balance-Unbalance Adapter

Bourns® Model 3617-01 Balanced-Unbalanced (BalUn) adapter combines the filtering of the 3610A2 ADSL2+ / VDSL2 POTS splitter with the impedance-matching features of the 3670-01 BalUn. The high-quality 3617-01 BalUn / Splitter Combo is designed to fit most industry-standard Network Interface Devices (NIDs) that utilize post mount features.

The splitter circuit is optimized for high bit-rate video over ADSL2+ / VDSL2 applications. The products are ANSI T1.413 compliant and meet the requirements of ITU G.992.3 and G.992.5 and can be used with ADSL, ADSL2+, VDSL and VDSL2. The POTS splitter circuit accepts the incoming combined voice & data service, filters off the voice (POTS) channel and provides a connection point to the impedance matching circuit. In the event of power loss, the passive filter design allows for lifeline POTS service.

The impedance matching circuit (BalUn) is designed to extend reach / reduce loss on ADSL2+ and VDSL2 applications where conversion from twisted pair to coaxial cabling is required. The 3617-01 is configured with twisted pair leads for connection to the station protector, Insulation Displacement Connectors (IDCs) for connection of the twisted pair home run and an "F" coax connector for connection to home coax cable.

### Characteristics

Twisted Wire Port Impedance .....	100 Ω
Coax Port Impedance .....	75 Ω
Withstand Voltage.....	DC 33 V, 2 sec (Ico=10 mA)
Insulation Resistance .....	>10 MΩ (DC 250 V)
Insertion Loss (Typical).....	0.55 dB @25 kHz
	0.13 dB @138 kHz
	0.22 dB @3.75 MHz
	0.28 dB @5.8 MHz
	0.35 dB @8.5 MHz
Return Loss (Typical).....	7.83 dB @25 kHz
	21.47 dB @138 kHz
	29.49 dB @3.75 MHz
	32.13 dB @5.8 MHz
	31.92 dB @8.5 MHz
DC Loop Current .....	0-100 mA
DC Loop Voltage .....	0 to -60 V
DC Resistance.....	≤25 ohms
Insertion Loss (Voice Band).....	<1.0 dB
Attenuation Distortion (Voice Band).....	< ±0.5 dB
Delay Distortion (Voice Band).....	<200 μs
Return Loss (Voice Band).....	8 dB ERL; 5 dB SRL-Low;
	5 dB SRL-High
Longitudinal Balance, Two Port Technique, POTS to Line Port (U-R); Line Port to POTS .....	>58 dB @ 0.2 to 1 kHz
	>53 dB @ 3 kHz
ADSL Band Attenuation.....	>65 dB @ 30 kHz - 300 kHz
	>55 dB @ 301 kHz - 20 MHz
Tip to Ring Capacitance (POTS Port) .....	<115 nF
Input Impedance (Loading the ADSL Band) .....	<0.25 dB 30 kHz - 30 MHz
Storage and Operating Temperature .....	-55 to +85 °C

### How To Order

Stud Mount .....	Part #3617-01
	50 units per carton

\*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

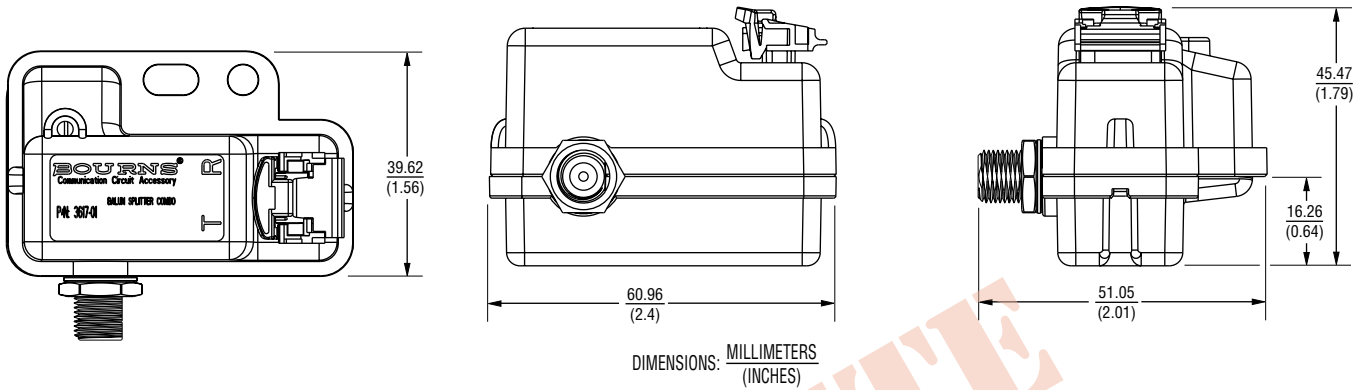
Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

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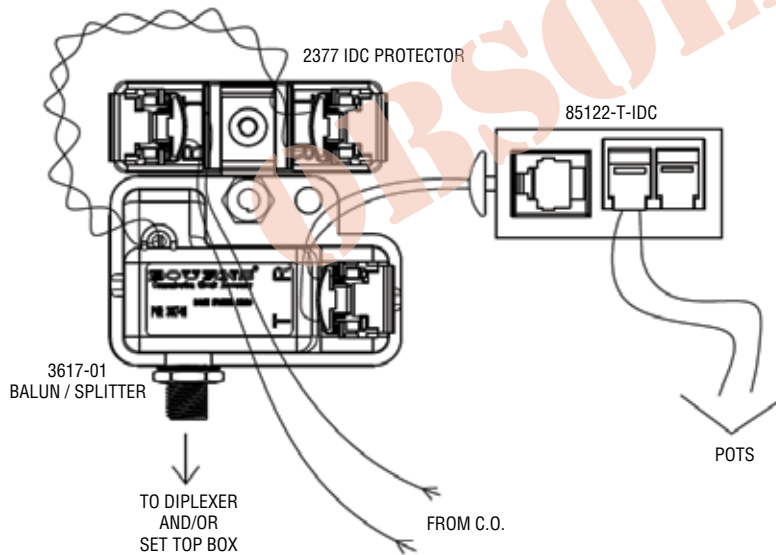
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## Product Dimensions

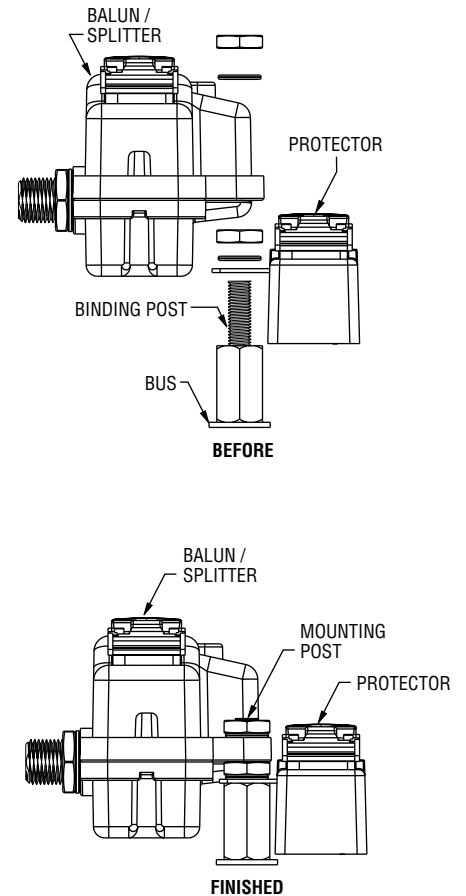


## Installation Diagrams

### Wiring Diagram



### Installation of Station Protector and Model 3617-01 on a Common Mounting Stud



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