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[Pulse Electronics Corporation](#)
[Z-300TJ](#)

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Z-BLOCKER® Z-300TJ xDSL over POTS In-Line Filter

Description

The Z-300TJ is a small in-line filter designed to expedite the service delivery and improve the performance of digital subscriber line (DSL). This model fits all telephone sets, facsimile machines, answering machines, etc. individually or in groups. It also provides a second convenience jack that is unfiltered for connecting DSL. This in-line DSL filter design electronically isolates the high-speed DSL data streams from the voice band plain old telephone services (POTS) equipment. This design effectively blocks the DSL, and other radio frequencies from 25 kilohertz to 30 Megahertz.

Features

- **Data Protection** - Isolates telephone equipment impedances from DSL equipment
- Excellent DSL band attenuation that protects voice band equipment and prevents intermodulation distortion from degrading data rates
- Compatible with all major DSL standards including ADSL, ADSL+2, VDSL, and VDSL2
- **Voice Protection** - Isolates DSL band frequencies from voice band equipment
- Excellent longitudinal balance
- Compatible with Caller ID, facsimile and metallic loop testing
- RoHS compliant
- Compliant and listed with UL 60950, FCC Part 68
- CE certified

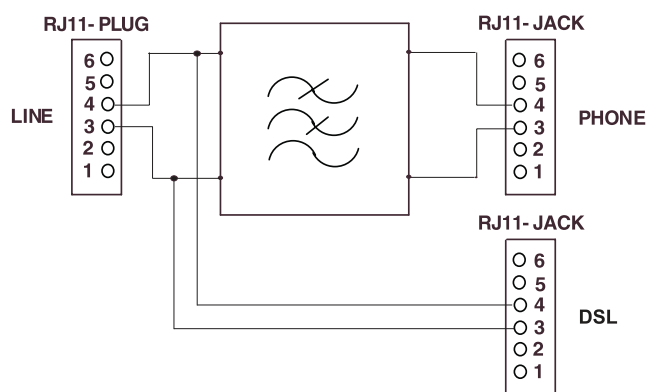


The Z-300TJ provides a DSL convenience jack for connecting a DSL modem

Applications

The Z-300TJ filters are used with other Z-BLOCKER® filters distributed throughout the subscribers' premises to isolate all voice band equipment devices such as cordless telephones, answering machines, fax machines, dial-up modems, and television set-top boxes.

The Z-300TJ in-line DSL filter is one of many filters manufactured by Excelsus for subscriber installed digital services within homes, offices, and hotels. Excelsus is the number one selling brand of DSL filters worldwide.



Z-300TJ Block Schematic



Z-BLOCKER® Z-300TJ xDSL over POTS In-Line Filter

Z-BLOCKER® Z-300TJ Filter Specifications

Line side differential input blocking impedance			
At 20 kHz			>2k
At 30 kHz			>3k
From 5 MHz to 10 MHz			>2k
1 kHz insertion loss between 600Ω resistive			
Single filter			<0.4
With 5 filters			<0.6
1 kHz/2.8 kHz slope between 600Ω resistive			
Single filter			<0.1
With 5 filters			<1.1
DC resistance in Ohms			
Tip to Tip, and Ring to Ring			<12
Tip to Ring			>10M
Longitudinal Balance per IEEE method			
From 200 - 1 kHz			>58 dB
From 1 kHz - 3 kHz			>53 dB
Common mode rejection at 40 kHz and 30 MHz			>45dB
Low pass roll off (slope) between 600Ω and ADSL Transmission Unit - Remote			>26dB
Inter-Modulation Distortion First and Second order products			>60dB
Envelope Delay 300 Hz - 2800 Hz			<100μs
600Ω Return Loss into phone side with 600Ω line termination with ATU-R			
Single filter	SRL Low		>30dB
	ERL		>14dB
	SRL High		>17dB
+2 bridged filter	SRL Low		>36dB
	ERL		>23dB
	SRL High		>13dB
+4 bridged filter	SRL Low		>26dB
	ERL		>15dB
	SRL High		>8dB
Complex* Return Loss with ATU-R			
Single filter	SRL Low		>27dB
Single filter	ERL		>14dB
Single filter	SRL High		>6dB
+2 bridged filters	SRL Low		>19dB
	ERL		>14dB
	SRL High		>3dB
+4 bridged filters	SRL Low		>15dB
	ERL		>7dB
	SRL High		>2dB
* 1330Ω in parallel with (100nfd in series with 348Ω)			
DC Loop Current - Meets specifications between 20 and 100 milliamps DC			
Connectors: RJ-11 Jack and RJ-11 Plug			
RJ11 pins have ≥50 micro-inches of gold plating over ≥100 micro-inches of nickel plating			
Dimensions: Length 53mm, Width 19.75mm, Height 18.9mm (Cord length:75mm)			
Compliant and listed with UL / CSA 60950, FCC CFR 47 Part 68			