

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) and home phonenumber network (HPN) services. This model filters all telephone sets, facsimile machines, answering machines, etc individually or in groups on line 1 only. It also provides a second “convenience” jack that is unfiltered for connecting DSL and/or HPN. Our in-line DSL filter design electronically isolates the high-speed DSL and HPN data streams from the voice band plain old telephone service (POTS). This design effectively blocks the DSL, HPN and other radio frequencies up to 10 Megahertz.

Features

- Isolate telephone equipment impedances from the xDSL and HPN systems
- Attenuate xDSL & HPN signals to phone equipment to prevent conversion to voice band signals
- Attenuate HPN signals to unbalanced phone equipment to prevent radiation into electronic equipment
- Attenuate radio signals picked up by unbalanced telephone acting as an antenna from effecting DSL or HPN receivers
- Minimize voice band interference --- transmission, signaling and supervision
- Compatible with all major xDSL standards including ADSL Full Rate (ITU-T G.992.1), ADSL G.Lite (ITU-T G.992.2), ADSL2 (ITU-T G.992.3 and .4), ADSL2+ (ITU-T G.992.5 in analog mode), ADSL2++, VDSL (ITU-T G.993.1), VDSL2; also V.90 and Metallic Loop Testing compatible
- **RoHS and WEEE Compliant**
- FCC CFR 47 Part 68; UL 1950, CE Mark



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

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 corded/cordless telephones, answering machines, fax machines, 56Kb/s and lower rate modems, automatic dialers, recorder connectors and satellite 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 In-Line DSL 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
From 10 MHz to 400 MHz		N/A
1 kHz insertion loss between 600 Ohm resistive		
Single filter		<0.4
With 5 filters		<0.6
1 kHz/2.8 kHz slope between 600 Ohm 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		>58dB
From 1 kHz - 3 kHz		>53dB
Common mode rejection, 40 kHz and 1.1 MHz		>45dB
Low pass roll off (slope) between 600 Ohm and ADSL Transmission Unit - Remote		>26dB
Inter-Modulation Distortion First and Second order products		>60dB
Envelope Delay 300 Hz - 2800 Hz		<100µs
600 Ohm Return Loss into phone side with 600 Ohm line termination with ATU-R		
Single filter	SRL Low	>30dB
	ERL	>14dB
	SRL High	>17dB
+2 bridged filters	SRL Low	>36dB
	ERL	>23dB
	SRL High	>13dB
+4 bridged filters	SRL Low	>26dB
	ERL	>15dB
	SRL High	>8dB
Complex* Return Loss with ATU-R		
Single filter	SRL Low	>27dB
	ERL	>14dB
	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
* 1330 Ohms in parallel with (100nfd in series with 348 Ohms)		
DC Loop Current – Meets specifications between 20 and 100 milliamps DC		
Isolates dial pulses and on-hook/off-hook transitions from the digital subscriber line		
Dimensions: Length 1.5in (39mm), Width 1.1in (27mm), Height 0.84in (21mm), Cord Length = 4.0in (102mm)		



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