

Features:

- Isolate telephone equipment impedances from the ADSL and Home Phone Network™ house wiring
- Attenuate ADSL & 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 ADSL or HPN receivers
- Minimize voice band interference --- transmission, signaling and supervision
- G Lite, V.90 and Metallic Loop Testing compatible
- FCC CFR 47 Part 68; UL 1950, and CSA 22.2 #950-5 Compliant and listed

Description:

The Z-200CW is a compact wall plate filter designed to expedite the service delivery and improve the performance of Asymmetric Digital Subscriber Line (ADSL) and Home Phone Network (HPN) services. This model filters both the wall phone and a jack on the right of the adapter for answering or fax machine. The jack on the left is unfiltered for ADSL or HPN connections. Excelsus in-line filter design electronically isolates the high-speed DSL and HPN data streams from the voice band Plain Ordinary Telephone Service (POTS) This design effectively blocks the ADSL, HPN and other radio frequencies up to 400 Megahertz (MHz).

Applications:

The Z-200CW filters are used with other Z-BLOCKER™ filters distributed throughout the subscribers' premises to isolate all voice band equipment devices such as telephone sets (including cordless types), answering machines, facsimile (fax) machines, 56Kb/s and lower rate



modems, automatic dialers, and recorder connectors. Z-BLOCKER™ filters may also be used to isolate the telephone network jack connected to a digital cable and/or satellite television set-top box. The Z-BLOCKER™ Z-200CW wall phone filter is one of many filters manufactured by Excelsus Technologies, Inc. for subscriber installed digital services within homes, offices, and hotels. The Z-200CW micro-filter has been approved for use by most Regional Bell Operating

Z-BLOCKER™ Z-200CW Wall Phone Filter

Series 200 Z-BLOCKER™ Filter Specifications		
Line side differential input blocking impedance		
At 20 kHz		>2k
At 30 kHz		>3k
From 5 MHz to 10 MHz		>4k
From 10 MHz to 400 MHz		>2k
1 kHz insertion loss between 600 Ohm resistive		
Single filter		<0.7
With 5 filters		<0.8
1 kHz/2.8 kHz slope between 600 Ohm resistive		
Single filter		<0.1
With 5 filters		<0.8
DC resistance in Ohms		
Tip to Tip, and Ring to Ring		<50
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		>45dB
1.1 MHz		>45dB
Low pass roll off (slope) between 600 Ohm and ADSL TranCWision Unit - Remote		
>24dB		
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	>25dB
	ERL	>25dB
	SRL High	>24dB
+2 bridged filters	SRL Low	>29dB
	ERL	>22dB
	SRL High	>15dB
+4 bridged filters	SRL Low	>28dB
	ERL	>16dB
	SRL High	>9dB
Complex* Return Loss with ATU-R		
Single filter	SRL Low	>28dB
	ERL	>17dB
	SRL High	>9dB
+ 2 bridged filters	SRL Low	>20dB
	ERL	>11dB
	SRL High	>6dB
+ 4 bridged filters	SRL Low	>16dB
	ERL	>8dB
	SRL High	>4dB
* 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: Height = 4.65in (118.11mm), Width = 3.0in (76.2mm), Depth = .825in (20.95mm)		

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