

Description

The Z-200SM is a small in-line filter designed to expedite the service delivery and improve the performance of digital subscriber line (DSL) services. This model fits all telephone sets, facsimile machines, answering machines, etc. individually or in groups. Our in-line filter design electronically isolates the high-speed DSL and HPN data streams from the voice band plain old telephone service (POTS) equipment. This design effectively blocks the DSL, HPN and other radio frequencies up to 400 Megahertz (MHz).

Features

- Isolates 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
- Minimize voice band interference --transmission, signaling and supervision
- Excellent longitudinal balance
- 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
- FCC 47 CFR Part 68, IC CS-03, UL 60950, and CSA 22.2 No. 60950 compliant and listed
- CE Mark certified
- RoHS and WEEE compliant



Z-200SM In-Line Filter

Applications

The Z-200SM 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-200SM-ST 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

www.PulseElectronics.com EX130.A (02/12)



Z-BLOCKER® Z-200SM In-Line Filter

At 20 kHz At 30 kHz From 5 MHz to 10 MHz From 10 MHz to 400 MHz 1 kHz insertion loss between 600Ω resistive Single filter With 5 filters 1 kHz/2.8 kHz slope between 600Ω resistive	>2k >3k >4k >2k <0.7
From 5 MHz to 10 MHz From 10 MHz to 400 MHz 1 kHz insertion loss between 600Ω resistive Single filter With 5 filters	>4k >2k
From 10 MHz to 400 MHz 1 kHz insertion loss between 600Ω resistive Single filter With 5 filters	>2k
l kHz insertion loss between 600Ω resistive Single filter With 5 filters	
Single filter With 5 filters	<0.7
With 5 filters	< 0.7
1 kHz/2 8 kHz slone hetween 6000 resistive	<0.8
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	70.17
From 200 - 1 kHz	>58 dB
From 1 kHz - 3 kHz	>53 dB
Common mode rejection at 40 kHz and 1.1 MHz	>45dB
Low pass roll off (slope) between 600 Ohm and ADSL Transmission Unit - Remote	>24dB
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	> 25 ID
Single filter SRL Low	>25dB
ERL CDL High	>25dB >24dB
SRL High +2 bridged filter SRL Low	>24dB >29dB
+2 bridged filter SRL Low ERL	>29dB >22dB
SRL High	>15dB
+4 bridged filter SRL Low	>28dB
ERL	>16dB
SRL High	>9dB
Complex* Return Loss with ATU-R	- Jub
Single filter SRL Low	>28dB
Single filter ERL	>17dB
Single filter 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 Ω in parallel with (100nfd in series with 348 Ω)	***
DC Loop Current - Meets specifications between 20 and 100 milliamps DC	<u> </u>



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