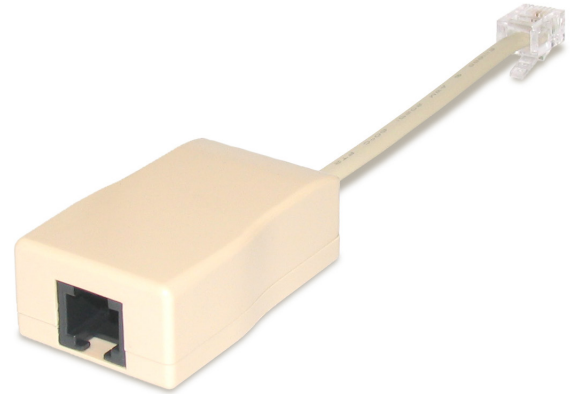


Description

The Z-230PJ is a small in-line filter designed to expedite the service delivery and improve the performance of digital subscriber line (DSL) and home phoneline network (HPN) services. This model filters all telephone sets, facsimile machines, answering machines, etc individually or in groups on line 1 only. 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, and HPN up to 30 Megahertz.



Z-230PJ In-Line xDSL over POTS Filter

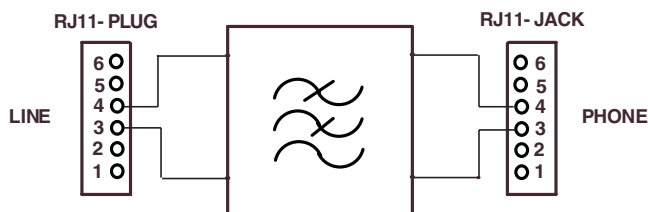
Features

- Isolates telephone equipment impedances from the xDSL and HPN systems
- Attenuates xDSL & HPN signals to phone equipment to prevent conversion to voice band signals
- Attenuates xDSL & HPN signals to unbalanced phone equipment to prevent radiation into electronic equipment
- Minimizes voice band interference, transmission, signaling and supervision
- Compatible with all major xDSL standards
- RoHS Compliant
- Compliant and listed with UL 60950, FCC Part 68
- CE certified

Applications

The Z-230PJ 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-230PJ 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-230PJ Block Schematic

Z-BLOCKER Z-230PJ

xDSL over POTS In-Line Filter

Z-BLOCKER Z-230PJ Filter Specifications

| | | |
|---|----------|--------|
| Line side differential input blocking impedance | | |
| At 20kHz | | >2k |
| At 30kHz | | >3k |
| From 5MHz to 10MHz | | >2k |
| 1kHz insertion loss between 600Ω resistive | | |
| Single filter | | <0.4 |
| With 5 filters | | <0.6 |
| 1kHz/2.8kHz 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 - 1kHz | | >58dB |
| From 1kHz - 3kHz | | >53dB |
| Common mode rejection, 40kHz and 30MHz | | >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 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 |
| *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 | | |
| Dimensions: Length = 2.12in (54mm), Width = 1.21in (30.85mm), Height = 0.72in (18.34mm), Cable length = 3.78in (96mm) | | |
| +/-1.0 mm on outline dimension. +/-10.0 mm on length of cable | | |
| Compliant and listed with UL / CSA 60950, FCC CFR 47 Part 68 | | |

For More Information:

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