

Description

The Z-230TJA is a small in-line filter designed to expedite the service delivery and improve the performance of digital subscriber line (DSL) services. This model filters 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 service (POTS) equipment. This design effectively blocks the DSL, and other radio frequencies from 25 kilohertz to 30 Megahertz.

Features

- *Data Protection* Isolates telephone impedances changes 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, ADSL2+, 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
- CE certified

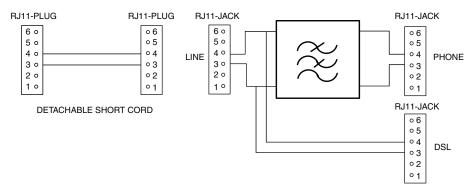


The Z-230TJA provides a DSL convenience jack and detachable LINE cord

Applications

The Z-230TJA 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-230TJA 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-230TJA Block Schematic



Z-BLOCKER Z-230TJA xDSL over POTS In-Line Filter

Line side differential input blocking impedance At 20kHz At 30kHz From 5MHz to 10MHz 1kHz insertion loss between 600Ω resistive Single filter With 5 filters 1kHz/2.8kHz slope between 600Ω resistive	>2k >3k >2k
From 5MHz to 10MHz 1kHz insertion loss between 600Ω resistive Single filter With 5 filters	
1kHz insertion loss between 600Ω resistive Single filter With 5 filters	>2k
Single filter With 5 filters	
With 5 filters	
	<0.4
1kHz/2 8kHz slone between 6000 resistive	<0.6
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
omplex* Return Loss with ATU-R	0.5.17
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
*1330 Ω in parallel with (100nfd in series with 348 Ω) DC Loop Current - Meets specifications between 20 and 100 milliamps DC	



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