



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Description

The Z-321P2J 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 on line 1 only. 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

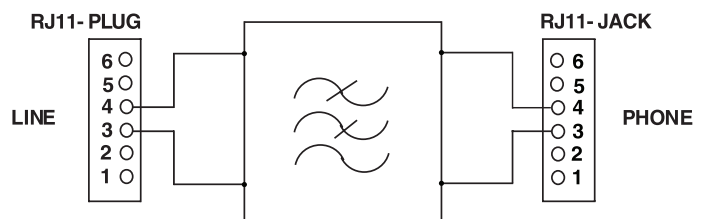
- Data Protection - Isolates telephone impedances changes from DSL equipment
- Excellent DSL band attenuation which protects voice band equipment and prevents intermodulation distortion from degrading data rates
- Compatible with all major DSL standards including, ADSL, ADSL2+, VDSL, and VDSL2
- Voice Protection - Isolates DSL band frequencies from voice band equipment
- Excellent longitudinal balance
- Compatible with Caller ID, facsimile and metallic loop testing
- RoHS compliant
- FCC CFR 47 Part 68; UL 1950, CE Mark
- Telmex approved



The Z-321P2J provides a DSL convenience jack for connecting a DSL modem

Applications

The Z-321P2J 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 satellite television set-top boxes. The Z-321P2J 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-321P2J Block Schematic

Z-BLOCKER® Z-321P2J Filter Specifications

Line side differential input blocking impedance		
At 20kHz		>2k
At 30kHz		>3k
From 5MHz to 10MHz		>2k
From 10MHz to 400MHz		N/A
1kHz insertion loss between 600Ω resistive		
Single filter		<0.4
With 5 filters		<0.6
1kHz/2.8 kHz 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 1.1MHz		>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 300Hz - 2800Hz		<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
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
* 1330Ω in parallel with (100nfd in series with 348Ω)		
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		
Connectors: RJ-11 Jacks and RJ11 Plug RJ-11 pins have ≥ 50 micro-inches of gold thickness		
Compliant with UL / CSA 60950, FCC CFR 47 Part 68		