

Z-BLOCKER[®] Z-230TJ In-Line DSL Filter

Description

The Z-230TJ 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. It also provides a second jack that is unfiltered for connecting DSL and/or HPN. 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, HPN and other radio frequencies up to 10 Megahertz.

Features

- Isolate 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
- Attenuate radio signals picked up by unbalanced telephone acting as an antenna from effecting DSL or HPN receivers
- Minimize voice band interference --- transmission, signaling and supervision
- 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 CFR 47 Part 68; UL 1950, and CSA 22.2 #950-5 compliant and listed

Applications

The Z-230TJ 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-230TJ 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-230TJ In-Line DSL Filter

Series 230 and 250 Z-B	LOCKER [®] Filter Specifications	
Line side differential inp		
At 20 kHz		>2k
At 30 kHz		>3k
From 5 MHz to 10 MHz		>2k
From 10 MHz to 400 MHz		N/A
1 kHz insertion loss betv	veen 600 Ohm resistive	
Single filter		<0.4
With 5 filters		<0.6
1 kHz/2.8 kHz slope betw	ween 600 Ohm 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 pe	r IEEE method	
From 200 - 1 kHz		>58dB
From 1 kHz - 3 kHz		>53dB
Common mode rejection, 40 kHz and 1.1 MHz		>45dB
Low pass roll off (slope) between 600 Ohm and ADSL Transmission Unit - Remote		>26dB
Inter-Modulation Distortion First and Second order products		>60dB
Envelope Delay 300 Hz - 2800 Hz		<100µs
	to phone side with 600 Ohm line termination with ATU-R	100µ0
Single filter	SRL Low	>30dB
Single Inter	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 v		
Single filter	SRL Low	>27dB
Single filter	ERL	>14dB
Single filter	SRL High	>6dB
+ 2 bridged filters	SRL Low	>19dB
0	ERL	>14dB
	SRL High	>3dB
+ 4 bridged filters	SRL Low	>15dB
<u> </u>	ERL	>7dB
	SRL High	>2dB
* 1330 Ohms in parallel	with (100nfd in series with 348 Ohms)	
*	ts specifications between 20 and 100 milliamps DC	<u>.</u>
<u>^</u>	on-hook/off-hook transitions from the digital subscriber line	
-	n (39mm), Width 1.1in (27mm), Height 0.84in (21mm),	
Cord Length = 4.0 in (10)		
sona Dongan Trom (10)		



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