PREMIER®

xDSL over POTS In-Line and Slim In-Line Filters

The PREMIER filters are designed to expedite the service delivery and improve the performance of digital subscriber line (DSL) services. These models filter all telephone sets, facsimile machines, answering machines, etc. individually or in groups. The DSL filters design electronically isolates the high-speed DSL data streams from the voice band POTS (plain old telephone service) equipment. This design effectively blocks the DSL, and other radio frequencies from 25 kilohertz to 30 Megahertz.

Features

» *Data Protection* - Isolates telephone impedance changes from DSL equipment

» Excellent DSL band attenuation that protects voice band equipment and prevents inter-modulation 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

» Compliant and listed with UL 60950, FCC Part 68

» ETL certified

Ordering Information

Item Number	Part Number	Description	
0000188943	PT-DSL-ILF-T	xDSL over POTS In-Line Filter	Includes a second convenience jack that is unfiltered for connecting DSL
0000188942	PT-DSL-ILF	xDSL over POTS Slim In-Line Filter	

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
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		
Connectors: RJ-11 Jacks and RJ-11 Plug. RJ11 pins have ≥50 micro-inches of gold plating over ≥100 micro-inches of nickel plating		
Compliant and listed with UL / CSA 60950, FCC CFR 47 Part 68		

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For more information, visit **www.dependonpremier.com** or call 1.800.755.1950.