CT-DSLF
Dual Line Split DSL Filter

Features:

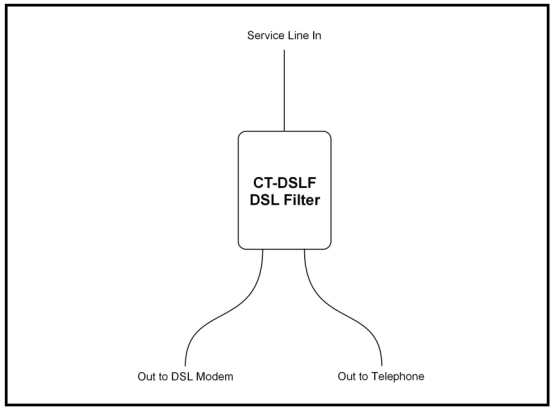
- Isolates telephone equipment impedances from the ADSL and home phone network house wiring
- Attenuates ADSL & HPN data signals to phone equipment
- Attenuates radio signals picked up by unbalanced telephone acting as an antenna to keep them from effecting ADSL or HPN receivers
- Minimizes voice band interference
- G Lite, V.90 and metallic loop testing compatible
- FCC CFR 47 Part 68: UL 1950 and CSA 22.2 #950-5 compliant and listed

Description:

The CT-DSLF is a small in line micro filter designed to expedite the service delivery and improve the performance of Asymmetric Digital Subscriber Lines (ADSL) and Home Phone Network (HPN) services. These units filter all telephone sets, fax machines, answering machines etc individually or in groups on both line 1 and line 2. They also provide a second jack that is unfiltered for connecting ADSL and or HPN. The microfilter 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 ADSL, HPN and other radio frequencies up to 10 MHz.

Applications:

The CT-DSLF filters are used throughout the subscribers' premises to isolate all voice band equipment devices such as telephone sets (including cordless types), answering machines, facsimile (fax) machines, 56Kb/s and lower rate modems, automatic dialers and recorder connectors. Filters may also be used to isolate the telephone network jack connected to a digital cable and/or satellite television set top box. The CT-DSLF micro filters have been approved for use by most Regional Bell Operating Companies (RBOCs) and many other digital subscriber line service providers worldwide.



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CT-DSLF
Dual Line Split DSL Filter

Line side differential input blocking impedance

@ 20 KHz	>2k
@30 KHz	>3k
From 5 MHz to 10 MHz	>2k
From 10 MHz to 400 MHz	N/A

1 KHz Insertion loss between 600 Ohm resistive

Single Filter	<0.4 dB
With 5 filters	<0.6 dB

1 KHz/2.8 KHz slope between 600 Ohm resistive

Single Filter	<0.1 dB
With 5 filters	<1.1 dB

DC Resistance in Ohms

Tip to tip and ring to ring	<12Ω
Tip to ring	>10MΩ

Longitundinal balance per IEEE method

From 200 - 1 KHz	>58 dB
From 1 KHz - 3 KHz	>53 dB

Common mode rejection

40 KHz	>45 dB
1.1 MHz	>45 dB

600 Ohm return loss into phone side with 600 Ohm line termination with ATU-R

Single filter	SRL Low	>30 dB
	ERL	>14 dB
	SRL High	>17 dB
+2 Bridged filters	SRL Low	>36 dB
	ERL	>23 dB
	SRL High	>13 dB
+4 Bridged filters	SRL Low	>26 dB
	ERL	>15 dB
	SRL High	>8 dB

Complex* Return loss with ATU-R

Single filter	SRL Low	>27 dB
	ERL	>14 dB
	SRL High	>6 dB
+2 Bridged filters	SRL Low	>19 dB
	ERL	>14 dB
	SRL High	>3 dB
+4 Bridged filters	SRL Low	>15 dB
	ERL	>7 dB
	SRL High	>2 dB

*1330 Ohms in parallele with (100nfd in series with 348 Ohms)

- Isolates dial pulses and on-hook/off-hook transitions from the digital subscriber line
- 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

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