

## DSL Filter DT60-0053A

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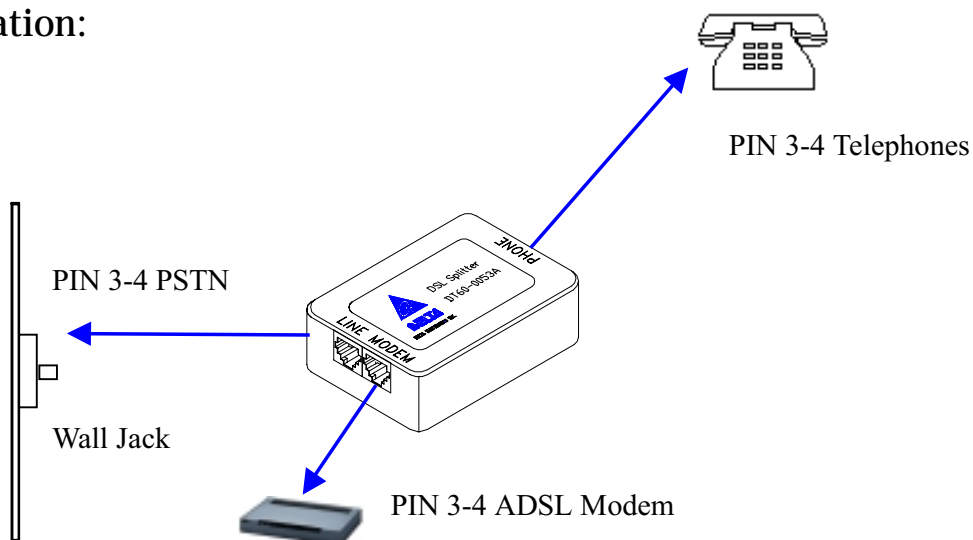
### Features:

- Loop current form 0mA to 130mA.
- Designed for implementation of ADSL CPE application.
- -10°C to +60 °C operating temperature range.
- Complies with ETSI TR 101 728 or ITU-T G.992.1 Annex E type of Japan.
- Provides excellent isolation between ADSL and POTS.

### Description:

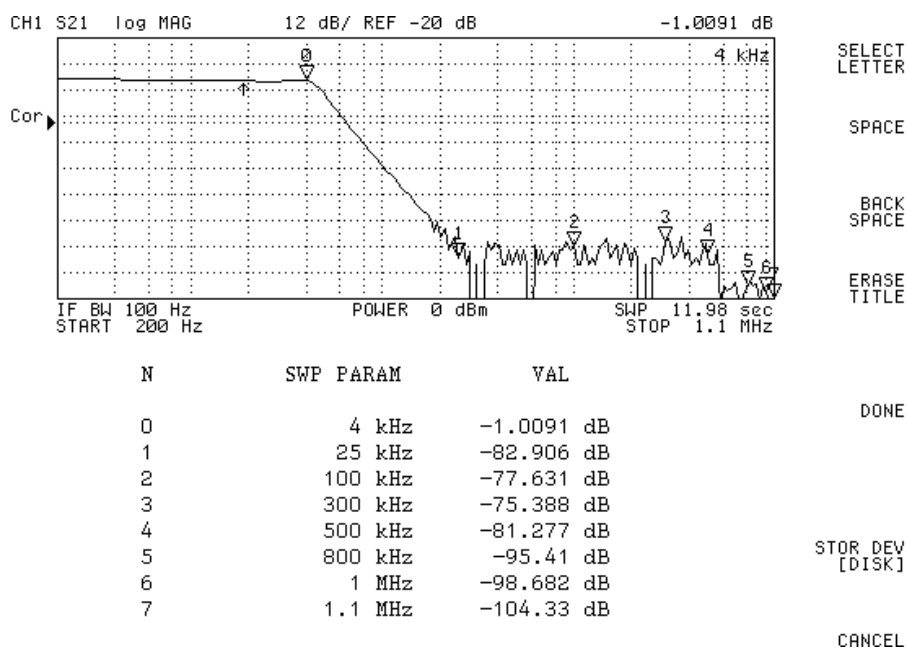
This document contains the requirements for ETSI or ITU-T G.992.1 POTS filter Recommendations. The POTS filter on the CPE side, is protection from the high-frequency transients and voice-band service, the LPF provide protection from ADSL signals which may impact through non-linear or other effects, remote devices (handset, fax, voice-band, modem, etc.) and central office operation.

### Installation:



## Frequency Diagram:

The splitter frequency response shows below.



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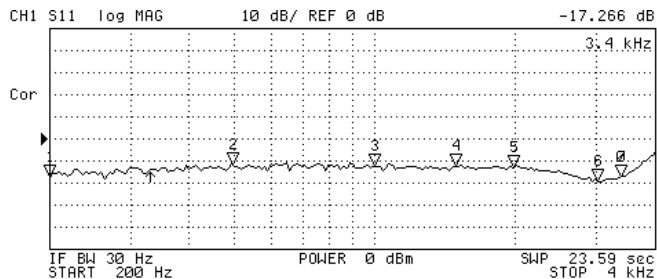
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### Electrical Characteristics:

Description	Value
DC resistance to earth	10 M $\Omega$ Min.
DC series resistance	40 $\Omega$ Max.
DC loop current	130 mA
Terminating impedance ZT-c	600 $\Omega$
ZT-r	600 $\Omega$
ZNL-r	150 $\Omega$ +( 72nF // (830 $\Omega$ +1uF))
Insertion Loss at 1KHz	1 dB Max.
Insertion Loss distortion	$\pm$ 1.0 dB @0.2kHz – 3.4kHz $\pm$ 1.5 dB @3.4kHz – 4.0kHz
ADSL band attenuation	>70 dB @25kHz~ 300kHz >55 dB @300kHz~ 1104kHz
ADSL band Insertion Loss	0.35 dB Max
Return Loss	11 dB MIN @200Hz – 1.5kHz 11 dB MIN @1.5kHz – 2kHz 9 dB MIN @2kHz – 3.4kHz
Group Delay Distortion	200 $\mu$ S @600Hz – 3200Hz 250 $\mu$ S @200Hz – 4000Hz
Line Impedance of ADSL	100 $\Omega$

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### RETURN LOSS TEST



N	SWP PARAM	VAL
0	3.4 kHz	-17.266 dB
1	200 Hz	-17.238 dB
2	500 Hz	-12.039 dB
3	1 kHz	-12.688 dB
4	1.5 kHz	-12.745 dB
5	2 kHz	-12.969 dB
6	3 kHz	-19.316 dB
7	3.4 kHz	-17.266 dB

SELECT  
LETTER

SPACE

BACK  
SPACE

ERASE  
TITLE

DONE

STOR\_DEV  
[DISK]

CANCEL

### ADSL BAND ATTENUATION TEST



N	SWP PARAM	VAL
0	1.1 MHz	-108.14 dB
1	25 kHz	-71.702 dB
2	100 kHz	-75.452 dB
3	300 kHz	-75.139 dB
4	500 kHz	-140.3 dB
5	800 kHz	-93.244 dB
6	1 MHz	-87.197 dB
7	1.1 MHz	-108.14 dB

SELECT  
LETTER

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BACK  
SPACE

ERASE  
TITLE

DONE

STOR\_DEV  
[DISK]

CANCEL