

DSL Filter DT60-0053A

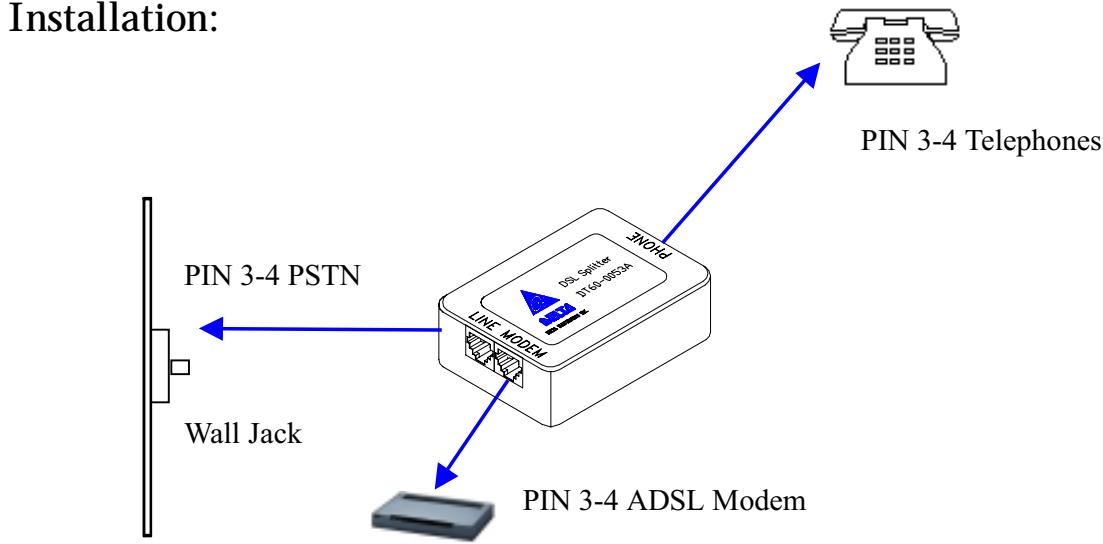
Features:

- Loop current from 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-liner or other effects, remote devices (handset, fax, voice-band, modem, etc.) and central office operation.

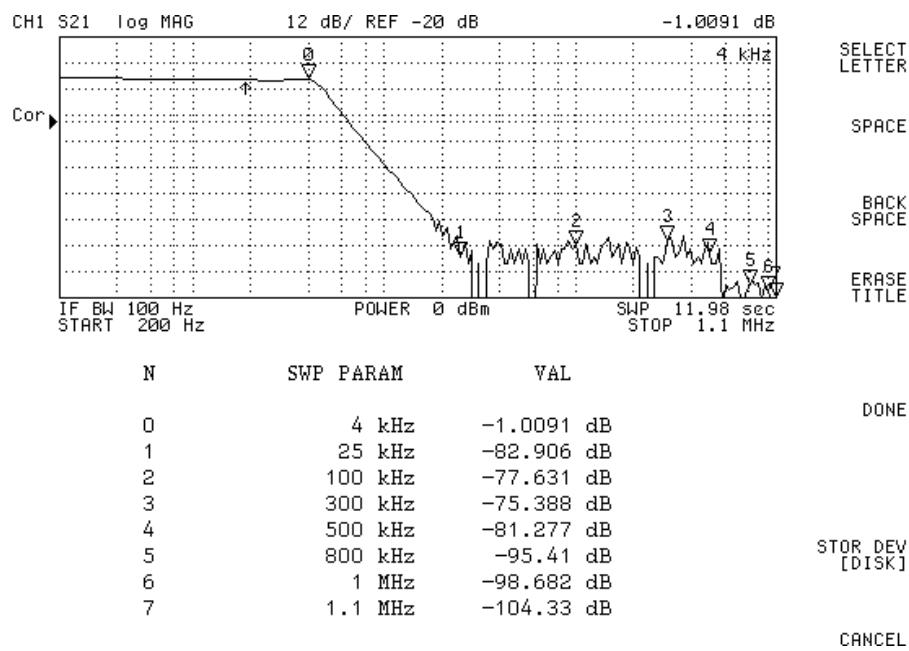
Installation:



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Frequency Diagram:

The splitter frequency response shows below.





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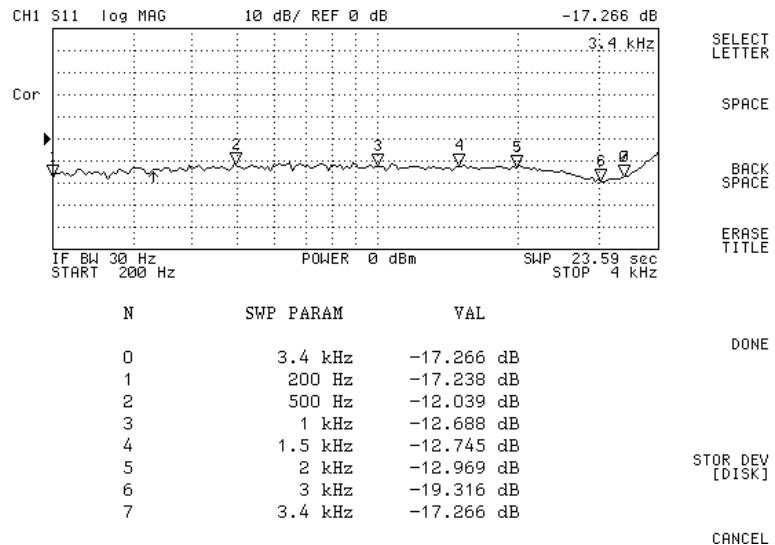
Electrical Characteristics:

Description	Value
DC resistance to earth	10 MΩ Min.
DC series resistance	40Ω Max.
DC loop current	130 mA
Terminating impedance ZT-c	600Ω
ZT-r	600Ω
ZNL-r	150Ω +(72nF // (830Ω+1uF))
Insertion Loss at 1KHz	1 dB Max.
Insertion Loss distortion	±1.0 dB @0.2kHz – 3.4kHz ±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 μS @600Hz – 3200Hz 250 μS @200Hz – 4000Hz
Line Impedance of ADSL	100Ω



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RETURN LOSS TEST



ADSL BAND ATTENUATION TEST

