VDSL Micro-Filter DT60-1015A-R2

DELTA ELECTRONICS, INC.

Features:

- Design Meet UL1950, UL94V-0
- Using connector RJ-11 for dual line.
- Operating temperature range -10℃ to +55 ℃.
- Designed for implementation of VDSL CPE application.
- Provides excellent isolation between VDSL and ISDN or POTS.
- Matched to Infineon technologies VDSL solution.
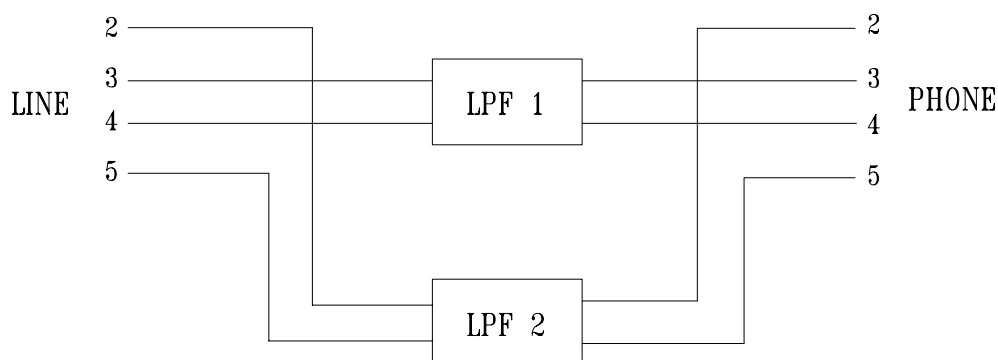- VDSL Frequency band 900K Hz to 8M Hz.

Description:

This document contains the requirements for VDSL Filter Recommendations. The POTS/ISDN splitter on the CPE side is a low pass filter, which separates the POTS/ISDN services from the VDSL bands.   The VDSL Filter separates the VDSL frequency range. Target is to suppress outland noise. Protection from the high-frequency transients and voiceband service, the LPF provide protection from VDSL signals, which may impact through non-liner or other effects, remote devices (handset, fax, voiceband, smart phone, modem, etc.) and central office operation.

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Block Diagram

This shows a typical VDSL splitter application.

Electrical Characteristics:

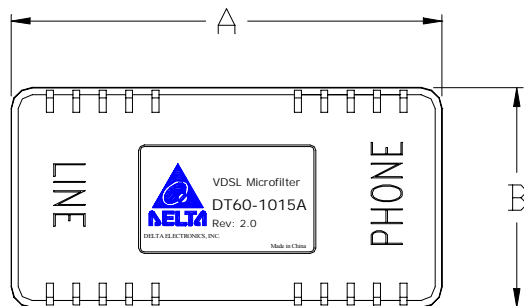The table shows the entire electrical requirement for the filter

ELECTRICAL CHARACTERISTICS	
ATTENUATION	20dB Min. @900KHz
	60dB Min. @1.2MHz ~ 10MHz
PASSBAND FREQUENCY	10KHZ ~ 630KHz @100mAdc
O/P IMPEDANCE	150 Ω
I/P IMPEDANCE	150 Ω
INSERTION LOSS	1.3dB Max. @10KHz ~ 630KHz
ISOLATION RESISTION	5 MΩ Min. @TIP TO RING
RETURN LOSS	9dB Min. @10KHz ~ 630KHz

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Mechanical Requirements

The filter dimension shows bellow.

UNIT: mm

A = 78.00±0.50
B = 31.60±0.50
C = 22.00±0.50

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