A.C.E. 泰華達股份有限公司
ArchiCore Electronics CO., LTD

RoHS 2002/95/EC

Product Specification

Product Name	**CPDMA001**
Product Type	**Customer Premise Splitter**
System Application	**VDSL Over ISDN**
Author	**Alvin Liou**
Approved By	**Sundi Lin**

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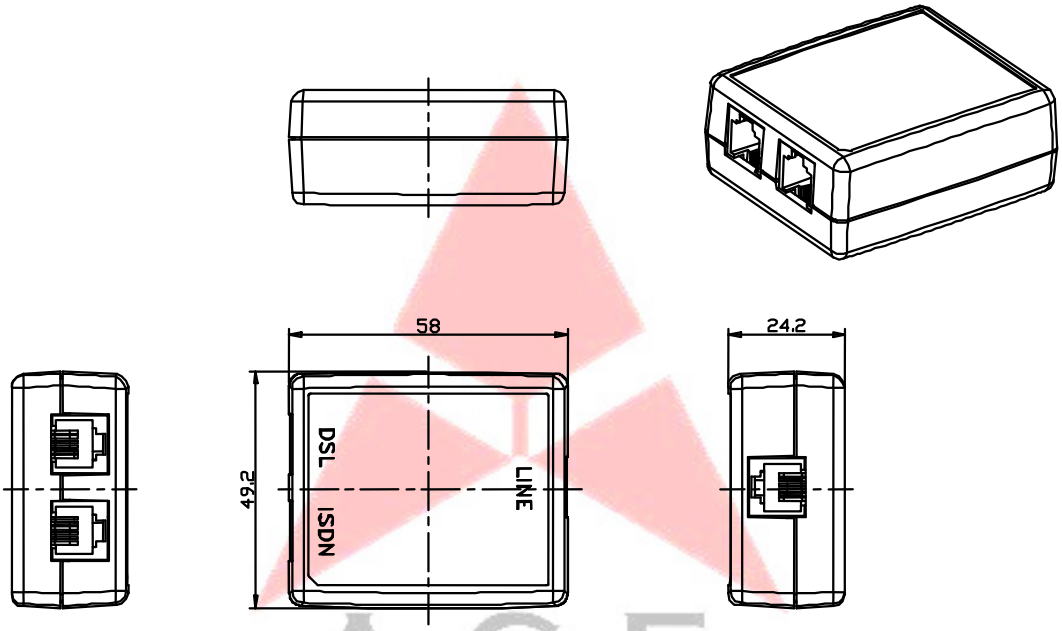
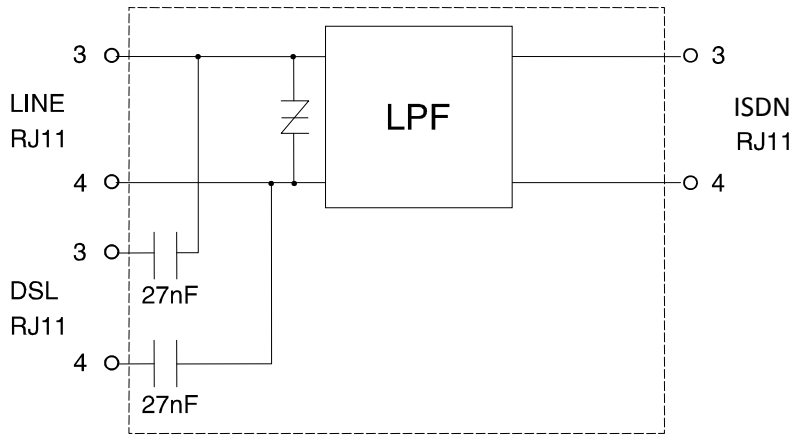
The CPDMA001 is a splitter module that has been specifically designed to implement the functionality of low pass filter over VDSL application. The CPDMA001 integrates low pass filters that block the high frequency energy from reaching the ISDN-BA device and provide isolation from impedance effects of the ISDN-BA device on VDSL. Because the ISDN splitter connects directly to the subscriber loop media, it must also provide some protection for externally induced line hits or faults which could damage any attached equipment or endanger humans interacting with the installed equipment. The circuit protection will be provided mostly by standard central office line protection means and additional protection measures built into splitter to protect against line overstress which could damage the splitter itself.





Reference :

ETSI TS 101 388	Transmission and Multiplexing (TM); Access transmission systems on metallic access cables; Asymmetric Digital Subscriber Line (ADSL) – European specific requirements [ITU-T G.992.1 modified]
ETSI TS 101 952-1-3 V1.1.1	Specification of ADSL / ISDN splitters
ETSI TS 102 080	Transmission and Multiplexing (TM); Integrated Services Digital Network (ISDN) basic rate access; Digital transmission system on metallic local lines
ITU-T K.21	Resistibility of telecommunication equipment installed in a telecommunication centre to overvoltages and overcurrents

Requirement :

Title		Conditions
DC resistance	<=12.5 ohm	Tip to Tip / Ring to Ring
Insertion Loss (135 ohms)	< 0.8 dB < 2 dB	1 kHz to 40 kHz 40 kHz to 80 kHz
Insertion Loss (150 ohms)	< 1.2 dB < 2 dB	1 kHz to 60 kHz 60 kHz to 80 kHz
Return Loss (135 ohms)	> 16 dB > 14 dB	1 kHz to 40 kHz 40 kHz to 80 kHz
Return Loss (150 ohms)	> 16 dB > 14 dB	1 kHz to 60 kHz 60 kHz to 80 kHz
Unbalance about earth	> 40 dB > 46 dB > 40 dB > 30 dB	300 Hz to 30 kHz 30 kHz to 1104 kHz 1104 kHz to 5 MHz 5 MHz to 30 MHz
Delay distortion	< 20 usec.	100 Hz to 80 kHz
Isolation requirements	> 65 dB > 55 dB	150 kHz to 1104 kHz 1104 kHz to 30 MHz
DSL insertion loss	< 3 dB < 1 dB	120 kHz to 170 kHz 170 kHz to 30 MHz

Revision History:

Rev.	Author	Approved by	Description of change	Issued date
0	Alvin	Sundi	New release	2011/08/31