Product Specification

Product name	**CPPCA002**
Product Type	**Customer premise Splitter**
System Application	**ADSL Over POTS**
Author	**Alvin Liou**
Approved By	**Sundi Lin**

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The CPPCA002 is a customer premise splitter that has been specifically designed to implement the functionality of low pass filter in POTS over ADSL application. The CPPCA002 integrate low pass filter that block the high frequency energy from reaching the POTS device and provide isolation from impedance effects of the POTS device on ADSL. Because the 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. This splitter mainly consist of one low pass filter which provide POTS solution respectively.

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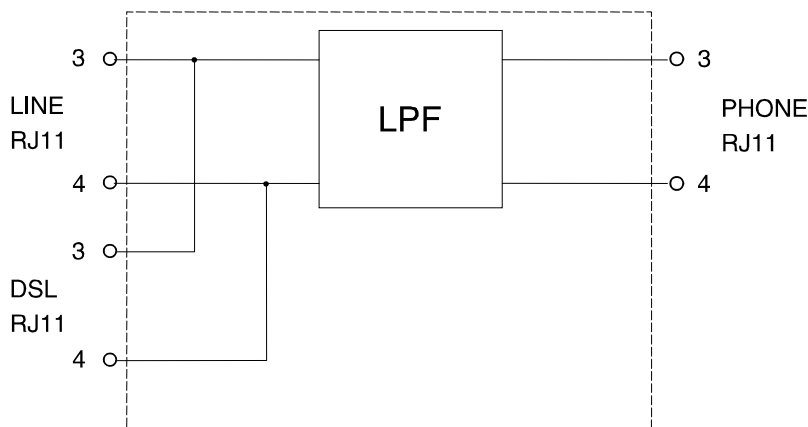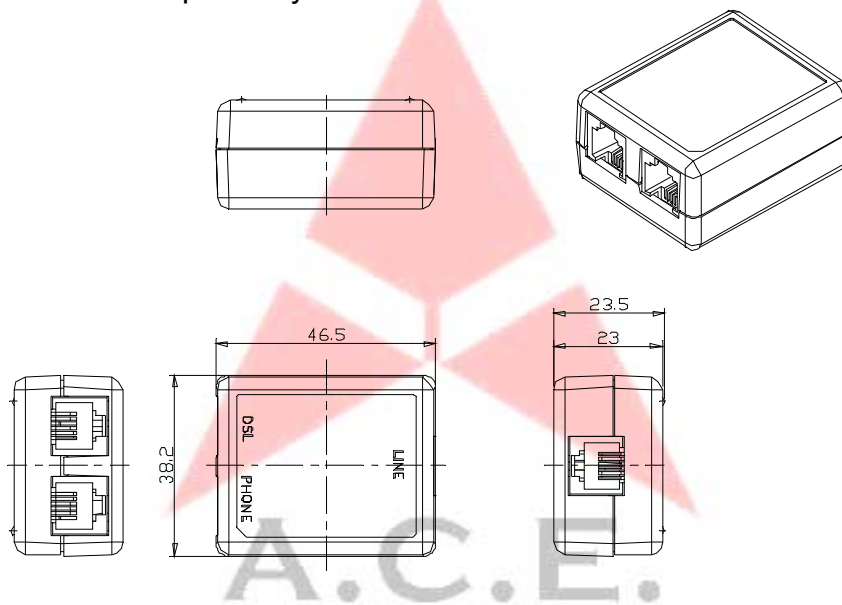
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Reference :

ETSI ETS 300 001	Attachments to Public Switched Telephone Network (PSTN); General technical requirements for equipment connected to an analogue subscriber interface in the PSTN
ITU G.992.x	Asymmetric Digital Subscriber Line (ADSL) Transceivers

Requirements :

Title		Conditions
DC resistance	<=50 ohm	Tip to Ring at the POTS interface with the U-R interface shorted.
Insertion loss ZTc=600, ZTr=600	< 1.0 dB	1 kHz
Insertion loss distortion ZTc=600, ZTr=600	< 1.0 dB	0.2 to 4.0 kHz (relative to 1 kHz)
Return loss Zref=600 , Zterm=600	> 12 dB	300 Hz < f < 2000 Hz
	> 8 dB	2000 Hz < f < 3400 Hz
Delay distortion **ZTc**=600, **ZTr**=600	< 200 us	0.6 kHz to 3.2 kHz
	< 250 us	0.2 kHz to 4.0 kHz
DSL band attenuation	> 28 dB	32 kHz to 138 kHz
	> 55 dB	138 kHz to 2208 kHz

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Revision History:

Rev.	Author	Approved by	Description of change	Issued date
0	Alvin	Sundi	New release	2011/3/9